

MCO 1510.67B

**INDIVIDUAL TRAINING
STANDARDS (ITS) SYSTEM
FOR
ORDNANCE MAINTENANCE
OCCFLD 21 VOL 3**



Signed 06 Nov 02
EDWARD HANLON, JR.
By direction

MCO 1510.67B
C 469
06 NOV 02

MARINE CORPS ORDER 1510.67B

From: Commandant of the Marine Corps
To: Distribution List

Subj: INDIVIDUAL TRAINING STANDARDS (ITS) SYSTEM FOR ORDNANCE MAINTENANCE OCCUPATIONAL
FIELD 21 VOLUME 3

Ref: (a) MCO 1510.34A
(b) MCO 1553.1B
(c) MCO 1553.2
(d) MCO 1553.3
(e) MCO 3500.27

Encl: (1) Description of an Individual Training Standard
(2) Management of Individual Training Standards
(3) Summary/Index of Individual Training Standards
(4) Common Individual Training Standards
(5) Training Support
(6) Individual Training Standards
(7) Summary/Index of Individual Training Standards by Specific Category (MOJT,
DL, PST)

1. Purpose. To publish revised ITS at enclosures (1) through (7) for Occupational
Field (OccFld)21.

2. Cancellation. MCO 1510.67A

3. Background

a. The references establish the system used to publish all training standards,
provide policy, and assign training responsibilities, especially as applied to the
Systems Approach to Training (SAT).

b. ITSs establish the training requirements for all Marines in the same OccFld,
Military Occupational Specialty (MOS), or billet. They provide a foundation upon which
unit commanders, Functional Learning Center (FLC) directors, and distance learning (DL)
developers build training packages for individual Marines as part of unit training plans
or formal courses of instruction.

c. ITSs represent the skills that contribute to the unit mission as expressed in
the Mission Performance Standards (MPS). Changes to doctrine or force structure or the
introduction of new weapons or equipment may necessitate revision of this Order.

4. Summary of Revision. Extensive changes, including new equipment training
requirements and associated references, have been made to this Order and it should be
reviewed in its entirety. Appendix A to enclosure (5) lists references with associated
tasks and appendix D to enclosure (5) lists current Marine Corps Distance Learning
Products with associated tasks. Enclosure (6) contains information on initial training
settings, training content, and Marine Corps Institute (MCI) products.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

5. Information

a. ITSS are used by unit commanders, FLC directors, and DL developers to design, develop, conduct, and evaluate the individual training of Marines. Unit commanders are responsible for the sustainment of all individual tasks that have been deemed, through analysis, to support the unit's Mission Essential Task List (METL). Unit commanders can, therefore, use the tasks contained in this Order as the basis of individual training through Managed On-The-Job Training (MOJT), instruction in unit-level schools, or incorporation in their training plans. FLC directors and DL developers will derive Terminal Learning Objectives (TLO) and Enabling Learning Objectives (ELO) from the tasks, conditions, standards, and performance steps of each associated ITS. Task lists reported on Course Descriptive Data (CDD) submissions will consist of tasks contained in this Order that are designated for training at the appropriate level in the FLC. Task lists reported on Distance Learning Descriptive Data (DLDD) submissions will consist of tasks contained in this Order that are designated for DL training at the appropriate level.

b. Unit commanders and FLC directors are responsible for reviewing their training programs per reference (e) and making interventions that reduce risk to acceptable levels.

6. Action

a. Commanding General, Marine Corps Combat Development Command (CG MCCDC)

(1) Ensure all FLCs use this Order to train personnel to the standards required by grade and MOS.

(2) Ensure the (MCI) and the Combat Visual Information Center (CVIC) provide standardized performance support tools (PST) and other training support requirements to facilitate training in units.

(3) Review, revise, and manage the upkeep of this Order in coordination with Operating Force and Supporting Establishment commanders and MOS Specialists/OccFld Managers.

(4) Ensure the Combat Development System identifies and mitigates the impact on training, by MOS and ITS, of all new equipment.

b. Commanding Generals of the Marine Forces and Supporting Establishment Commands and Commanders of Separate Organizations not commanded by a General Officer

(1) Use this Order as the basis for individual training.

(2) Conduct MOJT programs and/or instruction in unit level schools to satisfy initial, sustainment, and refresher training requirements in so far as the tasks support unit mission requirements.

7. Submission of Recommendations and Requirements. Recommendations concerning the content of this Order are invited. Submit recommendations for additions, deletions, or modifications to CG MCCDC (C 472) via the chain of command.

8. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

EDWARD HANLON, JR.
By direction

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DESCRIPTION OF AN INDIVIDUAL TRAINING STANDARD

1. ITS Designator. Each ITS has a unique three-part identifier that represents an MOS (or billet), a duty (or functional) area within that MOS, and a specific task included in that duty area. Each part is separated by periods. An example of an ITS Designator is 2141.02.08.

a. The first four positions ("2141" in the example above) represent the MOS or billet. For any ITS associated with an official MOS, the four digits must be identical to those assigned to the MOS in MCO P1200.7 (MOS Manual).

b. The middle two positions ("02" in the example above) represent the duty or functional area. Duty areas within a given MOS are assigned Arabic numerals. Duty areas 1 through 9 are always preceded by a leading zero. In the example above, "02" represents the second duty area under MOS 2141.

c. The last two positions ("08" in the example above) represent a specific task. Tasks within a specific duty or functional area are assigned Arabic numerals. Tasks 1 through 9 are always preceded by a leading zero. In the example above, "08" represents one task within the second duty area under MOS 2141.

2. ITS Components. There are six basic components of an ITS, five of which are mandatory:

a. Task. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for an MOS are designated as "Core." Those advanced skills that are mission, grade, or billet specific are designated as "Core Plus."

b. Condition(s). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. Standard(s). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. Performance Steps. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. Reference(s). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

f. Administrative Instructions (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

3. ITS Training

a. Initial Training Setting. All ITSs are assigned an initial training setting

ENCLOSURE (1)

that includes a specific location for initial instruction (Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)), a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

b. Training Materiel (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials (except ammunition, distance learning (DL) products, and performance support tools (PST)) required or recommended to properly train the task under the specified conditions and to the specified standard.

c. Ammunition (Optional). This section includes any ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

d. Distance Learning Product(s) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this task.

e. Performance Support Tool(s) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

MANAGEMENT OF INDIVIDUAL TRAINING STANDARDS

1. ITS Use

a. ITSs form the basis for all individual training in Functional Learning Centers (FLC) and units. They are written for all MOSs in order to specify the critical skills required by units of their individual Marines in support of the unit's combat missions as defined in the unit's Mission Essential Task List (METL).

b. FLC directors are responsible for reviewing all ITSs marked for initial training at the FLC. They must conduct courses of instruction on those ITSs appropriate for their student populations in terms of grade or rank. The task portion of each ITS taught in a given course must appear in the Task List (Item 24) of the CDD for that course. In accordance with the Systems Approach to Training (SAT), a Program of Instruction (POI) must also be developed for the course.

c. ITSs provide measures of performance that can be used by unit commanders to diagnose individual deficiencies and design training. Noted deficiencies should be scheduled for remediation on training plans or through Managed On-The-Job Training (MOJT), as appropriate.

d. A Marine should continue to receive instruction on ITSs that support the unit's METL. Individual training cannot cease upon graduation from the FLC because FLCs cannot prepare every Marine to serve in every billet. Individuals should be given opportunities in the unit to gain experience and responsibility as quickly as possible.

2. ITS Maintenance

a. A relationship exists between ITSs and the threat to Marine forces. Changes in the threat often trigger corresponding changes in our weapons, equipment, or doctrine, which then necessitate producing new or updated training standards. Such action requires a team effort on the part of the operating forces, the FLCs, and staff agencies at both Headquarters, U.S. Marine Corps and the Marine Corps Combat Development Command (MCCDC).

b. ITSs are ultimately validated by unit commanders and FLC directors. Records of Proceedings (ROP) resulting from Course Content Review Boards (CCRB) conducted by FLCs are particularly well suited for recommending revisions. The ROP should contain a justification for each proposed addition, deletion, or change and should accompany any request to obtain authority to depart from the currently published ITSs. Unit commanders can recommend changes through participation in a school's CCRB or directly via the chain of command. Unless significant changes warrant earlier action, ITS orders are revised and republished on a 4-year cycle.

c. ITS management is a dynamic process involving user maintenance as the key to refining standards to best serve unit missions. ITS users should evaluate whether ITSs support or fail to support an MOS, and ITS components should be examined for realism and pertinence. Users are encouraged to submit recommended changes to published ITSs through the chain of command.

ENCLOSURE (2)

SUMMARY/INDEX OF INDIVIDUAL TRAINING STANDARDS

1. General. This Enclosure is a summary listing of all ITS tasks grouped by MOS and duty area.

2. Format. The columns are as follows:

a. SEQ. Sequence Number. This number dictates the order in which tasks for a given duty area are displayed.

b. TASK. ITS Designator. This is the permanent designator assigned to the task when it is created.

c. TITLE. ITS Task Title.

d. CORE. An "X" appears in this column when the task is designated as a "Core" task required to "make" a Marine and qualify that Marine for the appropriate MOS. The absence of an "X" indicates that this is an advanced ("Core Plus") task that is mission, grade, or billet specific.

e. FLC. Functional Learning Center. An "X" appears in this column when the FLC is designated as the initial training setting. The absence of an "X" indicates that the initial training is accomplished through Managed On-The-Job Training (MOJT).

f. DL. Distance Learning Product. An "X" in this column indicates that at least one DL product is associated with this task. Consult enclosure (6) for details.

g. PST. Performance Support Tool. An "X" in this column indicates that at least one PST is associated with this task. Consult enclosure (6) for details.

h. SUS. Sustainment Training Period. An entry in this column represents the number of months between evaluation or retraining by the unit to maintain the proficiency required by the standard, provided the task supports the unit's METL.

i. REQ BY. Required By. An entry in this column depicts the lowest grade required to demonstrate proficiency in this task.

j. PAGE. Page Number. This column lists the number of the page in enclosure (6) that contains detailed information concerning this task.

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
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MOS 2141, ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

1)	2141.01.01	PERFORM AAV/FOV OPERATOR PMCS	X	X			12	Pvt	6-A-1
2)	2141.01.02	PERFORM AAV/FOV OPERATOR MAINTENANCE	X	X			12	Pvt	6-A-1
3)	2141.01.03	OPERATE AAV	X	X			12	Pvt	6-A-2
4)	2141.01.04	MAINTAIN AAV/FOV EQUIPMENT RECORDS	X	X			12	Pvt	6-A-3
5)	2141.01.05	OPERATE AAV/FOV COMMUNICATIONS EQUIPMENT	X	X			12	Pvt	6-A-4

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
6)	2141.01.06	OPERATE AAVR7A1 RECOVERY EQUIPMENT	X	X			12	Pvt	6-A-4
7)	2141.01.07	OPERATE AAVR7A1 MAINTENANCE EQUIPMENT	X	X			12	Pvt	6-A-5
8)	2141.01.08	PERFORM LAND BASED RECOVERY WITH THE AAV/FOV	X	X			12	Pvt	6-A-5
9)	2141.01.09	OPERATE AAVP7A1 COLD WEATHER EQUIPMENT					12	Pvt	6-A-6
10)	2141.01.10	MAINTAIN AAVR7A1 TOOLS AND TEST EQUIPMENT					12	Pvt	6-A-6

DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

1)	2141.03.02	PERFORM AAV/FOV ORGANIZATIONAL LEVEL PMCS	X	X			12	Pvt	6-A-8
2)	2141.03.05	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT					12	PFC	6-A-8
3)	2141.03.06	MAINTAIN AAV/FOV SUSPENSION SYSTEM	X	X			12	Pvt	6-A-9
4)	2141.03.07	MAINTAIN AAV/FOV POWER PLANT	X	X			12	Pvt	6-A-10
5)	2141.03.08	MAINTAIN AAV/FOV TRANSMISSION	X	X			12	Pvt	6-A-10
6)	2141.03.09	MAINTAIN AAV/FOV ENGINE	X	X			12	Pvt	6-A-11
7)	2141.03.10	MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY	X	X			12	Pvt	6-A-12
8)	2141.03.11	MAINTAIN AAV/FOV FINAL DRIVES	X	X			12	Pvt	6-A-12
9)	2141.03.12	MAINTAIN AAV/FOV AIR ASPIRATION SYSTEM					12	PFC	6-A-13
10)	2141.03.13	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM					12	Pvt	6-A-13
11)	2141.03.14	MAINTAIN AAV/FOV HYDRAULIC SYSTEM	X	X			12	Pvt	6-A-14
12)	2141.03.15	MAINTAIN AAV/FOV ELECTRICAL SYSTEMS	X	X			12	Pvt	6-A-15
13)	2141.03.16	MAINTAIN AAV/FOV FUEL SYSTEM	X	X			12	Pvt	6-A-15
14)	2141.03.17	MAINTAIN AAV/FOV CONTROLS AND LINKAGES	X	X			12	Pvt	6-A-16
15)	2141.03.18	MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM	X	X			12	Pvt	6-A-17
16)	2141.03.19	MAINTAIN AAV/FOV VENTILATION SYSTEM	X	X			12	Pvt	6-A-17
17)	2141.03.21	RECOVER SUBMERGED AAV/FOV					36	SSgt	6-A-18
18)	2141.03.22	PREPARE AAV/FOV FOR SHIPMENT					36	Sgt	6-A-18
19)	2141.03.23	MAINTAIN STORED AAV/FOV					36	Sgt	6-A-19
20)	2141.03.24	MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT	X	X			12	Pvt	6-A-19
21)	2141.03.25	MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)	X	X			12	Pvt	6-A-20
22)	2141.03.26	PERFORM AN AAV/FOV MODIFICATION					12	Cpl	6-A-21
23)	2141.03.28	PERFORM QUALITY CONTROL INSPECTION					24	Cpl	6-A-21

DUTY AREA 04 - THIRD ECHELON INTERMEDIATE MAINTENANCE

1)	2141.04.01	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT					12	Cpl	6-A-23
2)	2141.04.02	MAINTAIN AAV/FOV TRANSMISSION		X			12	Cpl	6-A-23
3)	2141.04.03	MAINTAIN AAV/FOV ENGINE					12	Cpl	6-A-24
4)	2141.04.04	MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY		X			12	Cpl	6-A-25
5)	2141.04.05	MAINTAIN AAV/FOV FINAL DRIVE		X			12	Cpl	6-A-25
6)	2141.04.06	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM					12	Cpl	6-A-26
7)	2141.04.07	MAINTAIN AAV/FOV HYDRAULIC SYSTEM		X			12	Cpl	6-A-27
8)	2141.04.08	MAINTAIN AAV/FOV ELECTRICAL SYSTEMS		X			12	Cpl	6-A-27
9)	2141.04.09	MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM		X			12	Cpl	6-A-28
10)	2141.04.10	MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)		X			12	Cpl	6-A-29
11)	2141.04.11	MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT		X			12	Cpl	6-A-29
12)	2141.04.12	MAINTAIN AAV/FOV TRACK TENSION ADJUSTER		X			12	Cpl	6-A-30
13)	2141.04.13	REPAIR HYDRAULIC CYLINDER		X			12	Cpl	6-A-31
14)	2141.04.14	REPAIR BOW PLANE ACTUATOR					12	Cpl	6-A-31

DUTY AREA 05 - FOURTH ECHELON INTERMEDIATE MAINTENANCE

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
1)	2141.05.01	REPAIR TRANSMISSION ASSEMBLY		X			12	Cpl	6-A-33
2)	2141.05.02	REPAIR SPEED CHANGE ASSEMBLY		X			6	Cpl	6-A-33
3)	2141.05.03	REPAIR AAV/FOV CLUTCH PACK ASSEMBLIES		X			6	Cpl	6-A-34
4)	2141.05.04	REPAIR BRAKE AND STEER ASSEMBLY		X			6	Cpl	6-A-35
5)	2141.05.06	REPAIR RANGE SELECTOR VALVE ASSEMBLY		X			6	Cpl	6-A-35
6)	2141.05.08	REPAIR POWER TAKE-OFF ASSEMBLY		X			6	Cpl	6-A-36
7)	2141.05.09	REPAIR MARINE DRIVE FRICTION CLUTCH		X			6	Cpl	6-A-36
8)	2141.05.10	REPAIR FAN DRIVE FRICTION CLUTCH		X			6	Cpl	6-A-37
9)	2141.05.11	REPAIR POWER DRIVEN ROTARY PUMP					6	Cpl	6-A-38
10)	2141.05.12	REPAIR SOLENOID VALVE ASSEMBLY					12	Cpl	6-A-38
11)	2141.05.13	REPAIR PERSONNEL HEATER					12	Cpl	6-A-39
12)	2141.05.15	REPAIR AAV/FOV ENGINE		X			12	Cpl	6-A-40
13)	2141.05.16	REPAIR AAV/7A1 VT400 TURBOCHARGER					6	Cpl	6-A-40
14)	2141.05.17	REPAIR WATER PUMP					6	Cpl	6-A-41
15)	2141.05.19	REPAIR AAV/FOV CYLINDER HEADS		X			12	Cpl	6-A-41
16)	2141.05.20	REPAIR AAV/FOV FINAL DRIVE ASSEMBLY		X			12	Cpl	6-A-42
17)	2141.05.21	REPAIR HYDRAULIC BILGE PUMP					12	Cpl	6-A-43
18)	2141.05.22	REPAIR AAV/FOV UPGUNNED WEAPON STATION (UGWS)					12	Cpl	6-A-43
19)	2141.05.25	REPAIR WATER JET PROPULSION UNIT					12	Cpl	6-A-44
20)	2141.05.26	REPAIR DEFLECTOR ACTUATOR ASSEMBLY		X			12	Cpl	6-A-44
21)	2141.05.27	REPAIR CREW VENT FAN					12	Cpl	6-A-45
22)	2141.05.28	REPAIR RADIATOR					12	Cpl	6-A-46
23)	2141.05.29	REPAIR ELEVATION MECHANISM		X			12	Cpl	6-A-46
24)	2141.05.30	REPAIR POWER-ASSISTED TRAVERSE MECHANISM		X			12	Cpl	6-A-47

DUTY AREA 06 - MK154 MAINTENANCE

1)	2141.06.01	MAINTAIN AAV/FOV MK154 LAUNCHER		X			12	Cpl	6-A-48
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DUTY AREA 07 - ADMINISTRATIVE FUNCTIONS

1)	2141.07.01	MANAGE MAINTENANCE FUNCTIONAL AREAS					12	SSgt	6-A-49
2)	2141.07.02	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS					12	SSgt	6-A-50
3)	2141.07.03	PERFORM OPERATOR TRAINING					12	SSgt	6-A-51
4)	2141.07.04	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION					12	SSgt	6-A-52
5)	2141.07.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	SSgt	6-A-52

MOS 2146, MAIN BATTLE TANK REPAIRER TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

1)	2146.01.02	OPERATE M1A1 TANK	X	X	X		12	Pvt	6-B-1
2)	2146.01.04	PERFORM M88A1/M88A2 OPERATOR PMCS	X	X			12	Pvt	6-B-1
3)	2146.01.05	TROUBLESHOOT M88A1/M88A2	X	X			12	Pvt	6-B-2
3)	2146.01.06	OPERATE M88A1/M88A2	X	X			12	Pvt	6-B-3
4)	2146.01.07	OPERATE M88A1/M88A2 AUXILIARY POWER UNIT	X	X			12	Pvt	6-B-4
5)	2146.01.08	OPERATE M88A1/M88A2 COMMUNICATIONS SYSTEM	X	X			12	Pvt	6-B-5

ENCLOSURE (3)

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ	BY	PAGE
<u>DUTY AREA 02 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE</u>										
1)	2146.02.01	MAINTAIN ORGANIZATIONAL TOOLS AND TEST EQUIPMENT	X	X			6	Pvt		6-B-6
2)	2146.02.02	PERFORM M1A1 PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)	X	X			12	Pvt		6-B-7
3)	2146.02.05	TROUBLESHOOT M1A1 SYSTEMS	X	X			12	Pvt		6-B-8
4)	2146.02.07	TROUBLESHOOT M1A1 MINE CLEARING BLADE					12	LCpl		6-B-9
5)	2146.02.08	MAINTAIN M1A1 POWERPACK	X	X			6	Pvt		6-B-10
6)	2146.02.10	MAINTAIN M1A1 INDUCTION SYSTEM	X	X			6	Pvt		6-B-11
7)	2146.02.11	MAINTAIN M1A1 FUEL SYSTEM	X	X			12	Pvt		6-B-12
8)	2146.02.12	MAINTAIN M1A1 COOLING SYSTEM	X	X			6	Pvt		6-B-13
9)	2146.02.13	MAINTAIN M1A1 ELECTRICAL SYSTEM	X	X			6	Pvt		6-B-14
10)	2146.02.15	MAINTAIN M1A1 FINAL DRIVE					12	LCpl		6-B-15
11)	2146.02.16	MAINTAIN M1A1 BRAKE SYSTEM					12	LCpl		6-B-16
12)	2146.02.17	MAINTAIN M1A1 TRACK AND SUSPENSION	X	X			12	Pvt		6-B-17
13)	2146.02.18	MAINTAIN M1A1 STEERING SYSTEM					12	Cpl		6-B-18
14)	2146.02.19	MAINTAIN M1A1 HULL EXTERIOR					12	PFC		6-B-19
15)	2146.02.20	MAINTAIN M1A1 INTERIOR HULL ASSEMBLY					12	PFC		6-B-20
16)	2146.02.21	MAINTAIN M1A1 ACCESSORY ITEMS	X	X			12	Pvt		6-B-22
17)	2146.02.22	MAINTAIN M1A1 BILGE PUMP					12	PFC		6-B-23
18)	2146.02.23	MAINTAIN M1A1 HULL HYDRAULIC SYSTEM	X	X			12	Pvt		6-B-24
19)	2146.02.25	MAINTAIN M1A1 FIRE SUPPRESSION SYSTEM	X	X			12	Pvt		6-B-25
20)	2146.02.26	MAINTAIN M1A1 NBC SYSTEM	X	X			12	Pvt		6-B-26
21)	2146.02.27	MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM	X	X			12	Pvt		6-B-27
22)	2146.02.28	MAINTAIN M1A1 TURRET SYSTEM	X	X			12	Pvt		6-B-28
23)	2146.02.29	MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM	X	X			12	Pvt		6-B-29
24)	2146.02.30	MAINTAIN M1A1 TURRET ARMAMENT SYSTEM	X	X			12	Pvt		6-B-30
25)	2146.02.31	MAINTAIN M1A1 FIRE CONTROL SYSTEM	X	X			12	Pvt		6-B-31
26)	2146.02.32	MAINTAIN M1A1 TURRET NBC SYSTEM	X	X			12	Pvt		6-B-31
27)	2146.02.33	MAINTAIN M1A1 MINECLEARING BLADE					6	LCpl		6-B-32
28)	2146.02.35	PERFORM M88A1/M88A2 ORGANIZATIONAL PMCS	X	X			12	Pvt		6-B-33
29)	2146.02.36	TROUBLESHOOT M88A1/M88A2 SYSTEMS	X	X			12	Pvt		6-B-34
30)	2146.02.37	TROUBLESHOOT M88A1/M88A2 ELECTRICAL SYSTEMS	X	X			12	Pvt		6-B-35
31)	2146.02.38	MAINTAIN M88A1/M88A2 POWER PLANT AND ASSEMBLIES	X	X			12	Pvt		6-B-36
32)	2146.02.39	MAINTAIN M88A1/M88A2 ELECTRICAL SYSTEMS	X	X			12	Pvt		6-B-37
33)	2146.02.40	MAINTAIN M88A1/M88A2 SUSPENSION COMPONENTS	X	X			12	Pvt		6-B-38
34)	2146.02.41	MAINTAIN M88A1/M88A2 HULL AND RELATED COMPONENTS					12	PFC		6-B-39
35)	2146.02.42	MAINTAIN M88A1/M88A2 PERSONNEL HEATER					12	LCpl		6-B-40
36)	2146.02.43	MAINTAIN M88A1/M88A2 FIRE EXTINGUISHER SYSTEM	X	X			12	Pvt		6-B-40
37)	2146.02.44	MAINTAIN M88A1/M88A2 HYDRAULIC SYSTEM COMPONENTS	X	X			12	Pvt		6-B-41
38)	2146.02.45	MAINTAIN M88A1/M88A2 MAIN HYDRAULIC SYSTEM	X	X			12	Pvt		6-B-42
39)	2146.02.46	MAINTAIN M88A1/M88A2 AUXILIARY POWER UNIT					12	PFC		6-B-43
40)	2146.02.47	MAINTAIN M88A1/M88A2 GAS PARTICULATE FILTER UNIT					12	PFC		6-B-44
41)	2146.02.48	MAINTAIN M88A1/M88A2 SMOKE GRENADE LAUNCHERS					12	PFC		6-B-45

ENCLOSURE (3)

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ	BY	PAGE
42)	2146.02.49	MAINTAIN M88A1/M88A2 EXHAUST SMOKE GENERATING SYSTEM					12	PFC		6-B-46
43)	2146.02.51	PERFORM AVLB CHASSIS/LAUNCHER PMCS	X	X			12	Pvt		6-B-47
44)	2146.02.52	TROUBLESHOOT AVLB CHASSIS/LAUNCHER	X	X			12	Pvt		6-B-48
45)	2146.02.53	MAINTAIN AVLB POWER PLANT	X	X			12	Pvt		6-B-49
46)	2146.02.54	MAINTAIN AVLB ENGINE	X	X			12	Pvt		6-B-50
47)	2146.02.55	MAINTAIN AVLB FUEL SYSTEM	X	X			12	Pvt		6-B-51
48)	2146.02.58	MAINTAIN AVLB ELECTRICAL SYSTEM	X	X			12	Pvt		6-B-52
49)	2146.02.59	MAINTAIN AVLB TRANSMISSION AND SHIFTING COMPONENTS	X	X			12	Pvt		6-B-53
50)	2146.02.60	MAINTAIN AVLB FINAL DRIVE	X	X			12	Pvt		6-B-54
51)	2146.02.61	MAINTAIN AVLB BRAKE SYSTEM	X	X			12	Pvt		6-B-55
52)	2146.02.62	MAINTAIN AVLB TRACK AND SUSPENSION SYSTEM					12	PFC		6-B-56
53)	2146.02.63	MAINTAIN AVLB STEERING SYSTEM					12	LCpl		6-B-57
54)	2146.02.64	MAINTAIN AVLB EXTERIOR COMPONENTS					12	PFC		6-B-58
55)	2146.02.65	MAINTAIN AVLB INTERIOR COMPONENTS	X	X			12	Pvt		6-B-59
56)	2146.02.66	MAINTAIN AVLB PERSONNEL HEATER					12	Pvt		6-B-60
57)	2146.02.67	MAINTAIN AVLB GAUGES	X	X			12	Pvt		6-B-61
58)	2146.02.68	MAINTAIN AVLB FIRE SUPPRESSION SYSTEM	X	X			12	Pvt		6-B-62
59)	2146.02.69	MAINTAIN AVLB SMOKE GENERATOR SYSTEM					12	LCpl		6-B-63
60)	2146.02.70	MAINTAIN AVLB SMOKE GRENADE LAUNCHER					12	PFC		6-B-65
61)	2146.02.71	MAINTAIN AVLB HYDRAULIC SYSTEM	X	X			12	Pvt		6-B-66
62)	2146.02.73	MAINTAIN AVLB BRIDGE	X	X			12	Pvt		6-B-67
63)	2146.02.74	MAINTAIN M1A1 EXTERNAL AUXILIARY POWER UNIT (EAPU)	X	X			6	Pvt		6-B-67
64)	2146.02.75	MAINTAIN M88A1/M88A2 OUTPUT REDUCTION UNIT	X	X			12	Pvt		6-B-68
65)	2146.02.76	APPLY DEEP WATER FORDING KIT TO M88A1/M88A2					12	PFC		6-B-69
66)	2146.02.77	PERFORM ANNUAL CONDITION INSPECTION OF M88A1/M88A2 RECOVERY VEHICLE	X	X			12	Pvt		6-B-70
67)	2146.02.78	MAINTAIN GROUND HOP M88A2 MAIN WINCH	X	X			12	Pvt		6-B-71
<u>DUTY AREA 03 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE</u>										
1)	2146.03.01	TROUBLESHOOT M1A1 HULL SYSTEM COMPONENTS	X	X			6	Pvt		6-B-72
2)	2146.03.02	TROUBLESHOOT M1A1 TURRET SYSTEM COMPONENTS	X	X			6	Pvt		6-B-73
3)	2146.03.03	REPAIR AGT TURBINE ENGINE		X			12	Cpl		6-B-73
4)	2146.03.04	MAINTAIN M1A1 FUEL SYSTEM COMPONENTS		X			12	Cpl		6-B-74
5)	2146.03.05	MAINTAIN M1A1 COOLING SYSTEM COMPONENTS		X			12	Cpl		6-B-75
6)	2146.03.06	MAINTAIN M1A1 HULL ELECTRICAL SYSTEM COMPONENTS		X			6	Cpl		6-B-76
7)	2146.03.07	REPAIR M1A1 FINAL DRIVE ASSEMBLY		X			12	Cpl		6-B-77
8)	2146.03.08	MAINTAIN M1A1 STEERING ASSEMBLY					12	LCpl		6-B-78
9)	2146.03.09	MAINTAIN M1A1 CHASSIS ACCESSORIES					12	LCpl		6-B-79
10)	2146.03.11	MAINTAIN M1A1 FIRE SUPPRESSION EQUIPMENT COMPONENTS		X			12	Cpl		6-B-79
11)	2146.03.12	MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM COMPONENTS		X			6	Cpl		6-B-80
12)	2146.03.13	MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM COMPONENTS		X			6	Cpl		6-B-81
13)	2146.03.14	MAINTAIN M1A1 TURRET ASSEMBLY COMPONENTS		X			6	Cpl		6-B-82
14)	2146.03.15	MAINTAIN M1A1 ARMAMENT SYSTEM COMPONENTS		X			12	Cpl		6-B-83

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
15)	2146.03.16	MAINTAIN M1A1 MINE CLEARING BLADE COMPONENTS					12	LCpl	6-B-84
16)	2146.03.17	MAINTAIN X11003B TRANSMISSION		X			12	Cpl	6-B-85
17)	2146.03.18	MAINTAIN EXTERNAL AUXILIARY POWER UNIT (EAPU)		X			12	Cpl	6-B-86
18)	2146.03.19	TROUBLESHOOT M88A1/M88A2		X			6	Cpl	6-B-86
19)	2146.03.20	MAINTAIN M88A1/M88A2 SYSTEMS		X			12	Cpl	6-B-87
20)	2146.03.21	MAINTAIN M88A1/M88A2 TURBOSUPERCHARGER		X			12	Cpl	6-B-88
21)	2146.03.22	REPAIR M88A1/M88A2 ENGINE		X			12	Cpl	6-B-89
22)	2146.03.23	REPAIR M88A1/M88A2 TRANSMISSION		X			12	Cpl	6-B-90
23)	2146.03.24	REPAIR M88A1/M88A2 OUTPUT REDUCTION UNIT		X			12	Cpl	6-B-90
24)	2146.03.25	MAINTAIN M88A1/M88A2 FUEL SYSTEM		X			12	Cpl	6-B-91
25)	2146.03.26	MAINTAIN AVLB ENGINE		X			12	Cpl	6-B-92
26)	2146.03.27	MAINTAIN AVLB FUEL SYSTEM		X			12	Cpl	6-B-93
27)	2146.03.28	MAINTAIN AVLB ELECTRICAL SYSTEM		X			12	Cpl	6-B-94
28)	2146.03.29	MAINTAIN AVLB TRANSMISSION		X			12	Cpl	6-B-94
29)	2146.03.30	MAINTAIN AVLB BRAKE SYSTEM COMPONENTS		X			12	Cpl	6-B-95
30)	2146.03.31	MAINTAIN AVLB SUSPENSION SYSTEM		X			12	Cpl	6-B-96
31)	2146.03.33	MAINTAIN AVLB FIRE SUPPRESSION SYSTEM		X			12	Cpl	6-B-97
32)	2146.03.34	MAINTAIN AVLB LAUNCHER		X			12	Cpl	6-B-98
33)	2146.03.35	MAINTAIN AVLB FINAL DRIVE		X			12	Cpl	6-B-99
34)	2146.03.36	MAINTAIN INTERMEDIATE TOOLS AND TEST EQUIPMENT					12	PFC	6-B-100

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

1)	2146.04.01	MANAGE MAINTENANCE FUNCTIONAL AREAS		X			12	Cpl	6-B-102
2)	2146.04.02	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS					12	Sgt	6-B-103
3)	2146.04.03	PERFORM OPERATOR TRAINING					12	Cpl	6-B-104
4)	2146.04.04	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION		X			12	Cpl	6-B-105
5)	2146.04.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	Sgt	6-B-106

MOS 2147, LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR AND CREW/OPERATOR MAINTENANCE

1)	2147.01.01	PERFORM LAV OPERATOR MAINTENANCE	X	X			12	Pvt	6-C-1
2)	2147.01.02	OPERATE LAV-25	X	X			12	Pvt	6-C-2
3)	2147.01.03	OPERATE LAV-ANTI-TANK (AT)	X	X			12	Pvt	6-C-3
4)	2147.01.04	OPERATE LAV-RECOVERY	X	X			6	Pvt	6-C-4
5)	2147.01.05	OPERATE LAV-MORTAR (M)					12	PFC	6-C-5
6)	2147.01.06	OPERATE LAV-COMMAND & CONTROL (C2)					12	PFC	6-C-6
7)	2147.01.07	OPERATE LAV-MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)					12	PFC	6-C-7
8)	2147.01.08	OPERATE LAV-LOGISTICS (L)					12	PFC	6-C-8
9)	2147.01.09	OPERATE LAV-AIR DEFENSE (AD)					12	PFC	6-C-8
10)	2147.01.10	MAINTAIN LAV TOOLS AND TEST EQUIPMENT	X	X			12	Pvt	6-C-9
11)	2147.01.11	PERFORM LAV PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)	X	X			12	Pvt	6-C-10

DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
1)	2147.03.01	MAINTAIN LAV HULL (ALL VARIANTS)	X	X			12	Pvt	6-C-13
2)	2147.03.02	MAINTAIN LAV SUSPENSION SYSTEM	X	X			6	Pvt	6-C-14
3)	2147.03.03	MAINTAIN LAV ENGINE	X	X			12	Pvt	6-C-15
4)	2147.03.04	MAINTAIN LAV TRANSMISSION	X	X			12	Pvt	6-C-16
5)	2147.03.05	MAINTAIN LAV POWERPACK	X	X			12	Pvt	6-C-16
6)	2147.03.06	MAINTAIN LAV STEERING SYSTEM	X	X			12	Pvt	6-C-17
7)	2147.03.07	MAINTAIN LAV COOLING SYSTEM	X	X			12	Pvt	6-C-18
8)	2147.03.08	MAINTAIN LAV FUEL SYSTEM	X	X			12	Pvt	6-C-19
9)	2147.03.09	MAINTAIN LAV HULL ELECTRICAL SYSTEM	X	X			12	Pvt	6-C-20
10)	2147.03.10	MAINTAIN LAV PNEUMATIC SYSTEM	X	X			12	Pvt	6-C-21
11)	2147.03.11	MAINTAIN LAV HULL HYDRAULIC SYSTEM	X	X			12	Pvt	6-C-22
12)	2147.03.12	MAINTAIN LAV BRAKE SYSTEM	X	X			12	Pvt	6-C-23
13)	2147.03.13	MAINTAIN LAV DRIVE TRAIN	X	X			12	Pvt	6-C-24
14)	2147.03.14	MAINTAIN LAV FIRE SUPPRESSION SYSTEM					12	PFC	6-C-24
15)	2147.03.15	MAINTAIN LAV-25 TURRET ASSEMBLY		X			12	Cpl	6-C-25
16)	2147.03.16	MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS		X			12	Cpl	6-C-26
17)	2147.03.17	MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS		X			12	Cpl	6-C-27
18)	2147.03.18	MAINTAIN LAV-AT TURRET ASSEMBLY		X			12	Cpl	6-C-28
19)	2147.03.19	MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS		X			12	Cpl	6-C-29
20)	2147.03.20	MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS		X			12	Cpl	6-C-30
21)	2147.03.21	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES		X			12	Cpl	6-C-30
22)	2147.03.22	MAINTAIN LAV-RECOVERY		X			6	Cpl	6-C-31
23)	2147.03.23	MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM		X			12	Cpl	6-C-32
24)	2147.03.24	MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM		X			12	Cpl	6-C-33
25)	2147.03.25	MAINTAIN M242 25MM AUTOMATIC CHAIN GUN					12	PFC	6-C-34
26)	2147.03.26	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES		X			12	Cpl	6-C-35
27)	2147.03.27	MAINTAIN LAV-AT TURRET CONTROLS AND INDICATORS		X			12	Cpl	6-C-36
28)	2147.03.28	CONVERT LAV-AT TURRET STOW AND LOW STOW		X			12	Cpl	6-C-36
DUTY AREA 04 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE									
1)	2147.04.01	MAINTAIN LAV HULL (ALL VARIANTS)		X			12	Cpl	6-C-38
2)	2147.04.02	MAINTAIN LAV SUSPENSION SYSTEM					12	PFC	6-C-39
3)	2147.04.03	MAINTAIN LAV ENGINE		X			12	Cpl	6-C-40
4)	2147.04.04	MAINTAIN LAV TRANSMISSION					12	PFC	6-C-41
5)	2147.04.05	MAINTAIN LAV POWERPACK		X			12	Cpl	6-C-42
6)	2147.04.06	MAINTAIN LAV STEERING SYSTEM					12	PFC	6-C-43
7)	2147.04.07	MAINTAIN LAV HULL ELECTRICAL SYSTEM		X			12	Cpl	6-C-43
8)	2147.04.08	MAINTAIN LAV HULL PNEUMATIC SYSTEM					12	PFC	6-C-45
9)	2147.04.09	MAINTAIN LAV HULL HYDRAULIC SYSTEM					12	PFC	6-C-45
10)	2147.04.10	MAINTAIN LAV BRAKE SYSTEM					12	PFC	6-C-46
11)	2147.04.11	MAINTAIN LAV DRIVE TRAIN		X			12	Cpl	6-C-47
12)	2147.04.12	MAINTAIN LAV FIRE SUPPRESSION SYSTEM					12	PFC	6-C-48
13)	2147.04.13	MAINTAIN LAV-25 TURRET ASSEMBLY		X			12	Cpl	6-C-48
14)	2147.04.14	MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS		X			12	Cpl	6-C-49
15)	2147.04.15	MAINTAIN LAV-25 TURRET FIRE CONTROL		X			12	Cpl	6-C-50

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SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ	BY	PAGE
		ELECTRONICS								
16)	2147.04.16	MAINTAIN LAV-AT TURRET ASSEMBLY		X			12	Cpl		6-C-51
17)	2147.04.17	MAINTAIN LAV-AT TURRET FIRE CONTROL		X			12	Cpl		6-C-52
		HYDRAULICS								
18)	2147.04.18	MAINTAIN LAV-AT TURRET FIRE CONTROL		X			12	Cpl		6-C-52
		ELECTRONICS								
19)	2147.04.19	MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES		X			12	Cpl		6-C-53
20)	2147.04.20	MAINTAIN LAV-RECOVERY		X			12	Cpl		6-C-54
21)	2147.04.21	MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM		X			12	Cpl		6-C-55
22)	2147.04.22	MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM		X			12	Cpl		6-C-56
23)	2147.04.23	MAINTAIN M242 25MM AUTOMATIC CHAIN GUN		X			12	Cpl		6-C-57
<u>DUTY AREA 05 - ADMINISTRATIVE FUNCTIONS</u>										
1)	2147.05.01	MANAGE MAINTENANCE FUNCTIONAL AREAS		X			12	Cpl		6-C-58
2)	2147.05.02	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS					12	Sgt		6-C-59
3)	2147.05.03	PERFORM OPERATOR TRAINING					12	Cpl		6-C-60
4)	2147.05.04	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION		X			12	Cpl		6-C-61
5)	2147.05.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	Sgt		6-C-61

ENCLOSURE (3)

COMMON INDIVIDUAL TRAINING STANDARDS

1. General. This Enclosure lists the ITS tasks common to more than one MOS within the OccFld. It is designed to assist the trainer in consolidating training for common tasks.

2. Format. The columns are as follows:

a. TASK TITLE. A listing of all tasks common to at least two MOSs.

b. COMMON TASK NUMBERS. A listing of the ITS designators for all ITSs containing the same task title.

<u>TASK TITLE</u>	<u>COMMON TASK NUMBERS</u>		
ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS	2141.07.02	2146.04.02	2147.05.02
CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM	2141.07.05	2146.04.05	2147.05.05
MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT	2141.03.05	2141.04.01	
MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY	2141.03.10	2141.04.04	
MAINTAIN AAV/FOV ELECTRICAL SYSTEMS	2141.03.15	2141.04.08	
MAINTAIN AAV/FOV ENGINE	2141.03.09	2141.04.03	
MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM	2141.03.18	2141.04.09	
MAINTAIN AAV/FOV HYDRAULIC SYSTEM	2141.03.14	2141.04.07	
MAINTAIN AAV/FOV TRANSMISSION	2141.03.08	2141.04.02	
MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)	2141.03.25	2141.04.10	
MAINTAIN AAV/FOV WATER PROPULSION SYSTEM	2141.03.13	2141.04.06	
MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT	2141.03.24	2141.04.11	
MAINTAIN AVLB ELECTRICAL SYSTEM	2146.02.58	2146.03.28	
MAINTAIN AVLB ENGINE	2146.02.54	2146.03.26	
MAINTAIN AVLB FINAL DRIVE	2146.02.60	2146.03.35	
MAINTAIN AVLB FIRE SUPPRESSION SYSTEM	2146.02.68	2146.03.33	
MAINTAIN AVLB FUEL SYSTEM	2146.02.55	2146.03.27	
MAINTAIN LAV BRAKE SYSTEM	2147.03.12	2147.04.10	
MAINTAIN LAV DRIVE TRAIN	2147.03.13	2147.04.11	

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TASK TITLE	COMMON TASK NUMBERS		
MAINTAIN LAV ENGINE	2147.03.03	2147.04.03	
MAINTAIN LAV FIRE SUPPRESSION SYSTEM	2147.03.14	2147.04.12	
MAINTAIN LAV HULL (ALL VARIANTS)	2147.03.01	2147.04.01	
MAINTAIN LAV HULL ELECTRICAL SYSTEM	2147.03.09	2147.04.07	
MAINTAIN LAV HULL HYDRAULIC SYSTEM	2147.03.11	2147.04.09	
MAINTAIN LAV POWERPACK	2147.03.05	2147.04.05	
MAINTAIN LAV STEERING SYSTEM	2147.03.06	2147.04.06	
MAINTAIN LAV SUSPENSION SYSTEM	2147.03.02	2147.04.02	
MAINTAIN LAV TRANSMISSION	2147.03.04	2147.04.04	
MAINTAIN LAV-25 TURRET ASSEMBLY	2147.03.15	2147.04.13	
MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS	2147.03.17	2147.04.15	
MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS	2147.03.16	2147.04.14	
MAINTAIN LAV-AT TURRET ASSEMBLY	2147.03.18	2147.04.16	
MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS	2147.03.20	2147.04.18	
MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS	2147.03.19	2147.04.17	
MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES	2147.03.21	2147.03.26	2147.04.19
MAINTAIN LAV-RECOVERY	2147.03.22	2147.04.20	
MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM	2147.03.23	2147.04.21	
MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM	2147.03.24	2147.04.22	
MAINTAIN M242 25MM AUTOMATIC CHAIN GUN	2147.03.25	2147.04.23	
MANAGE MAINTENANCE FUNCTIONAL AREAS	2141.07.01	2146.04.01	2147.05.01
PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION	2141.07.04	2146.04.04	2147.05.04
PERFORM OPERATOR TRAINING	2141.07.03	2146.04.03	2147.05.03
TROUBLESHOOT M88A1/M88A2	2146.01.05	2146.03.19	

ENCLOSURE (4)

TRAINING SUPPORT

1. This Enclosure summarizes five categories of training support by ITS for the entire OccFld:

Appendix A: References

Appendix B: Training Materiel

Appendix C: Ammunition, Explosives, and Pyrotechnics

Appendix D: Distance Learning Products

Appendix E: Performance Support Tools

2. If support identified in any appendix is not applicable to this OccFld, the appendix will include a statement to that effect.

REFERENCES

1. General. References are doctrinal publications, technical manuals, and other publications upon which an ITS and its performance steps are based. They should be readily available and provide the detailed procedures for accomplishing the task. This section includes a list of all reference publications associated with any task in this OccFld.

2. Format. The columns are as follows:

a. REFERENCES. This column summarizes all references associated with at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks to which the corresponding reference is associated.

<u>REFERENCES</u>	<u>TASK NUMBERS</u>			
ATLASS II+ User's Manual	2141.07.01	2141.07.04	2146.04.01	2146.04.04
	2147.05.01	2147.05.04		
Applicable Modification Instruction (MI) or Engineering Change Proposal (ECP)	2141.03.26			
Applicable SL-3s	2141.01.10			
Applicable equipment technical manuals	2141.03.28	2141.07.01	2146.04.01	2147.05.01
Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm	2141.07.05	2146.04.05	2147.05.05	
Unit Maintenance Management Standing Operating Procedures (MMSOP)	2141.03.21			
FM 20-22, Recovery Vehicle Operations	2146.01.06			
FM 23-65, Browning Machinegun, .50-Caliber HB, M2	2146.01.06			
FM 31-70, Basic Cold Weather Manual	2146.01.06			
FM 31-71, Northern Operations	2146.01.06			
FM 31-76, Mountain Operations	2146.01.06			
FMFRP 4-34, Battlefield Damage Assessment and Repair	2146.01.06			
LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret	2147.01.02	2147.01.11	2147.03.15	2147.03.16
	2147.04.13	2147.04.14		

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REFERENCES	TASK NUMBERS			
LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25	2147.01.01 2147.03.08 2147.04.01 2147.04.11	2147.01.02 2147.03.11 2147.04.03	2147.01.03 2147.03.12 2147.04.04	2147.01.11 2147.03.13 2147.04.10
LI 08650A-12A, Lubrication Instructions, LAV-Command & Control	2147.01.01	2147.01.06		
LI 08651A-12A, Lubrication Instructions, LAV-Recovery	2147.01.01 2147.04.01	2147.01.04 2147.04.22	2147.01.11	2147.03.24
LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret	2147.01.03 2147.03.20	2147.01.11 2147.03.21	2147.03.18 2147.04.17	2147.03.19 2147.04.18
LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull	2147.01.01	2147.01.03	2147.01.11	2147.04.01
LI 08654A-12, Lubrication Instructions, LAV-Logistics	2147.01.01	2147.01.08	2147.01.11	2147.04.01
LI 08655A-12A, Lubrication Instructions, LAV-Mortar	2147.01.01	2147.01.05	2147.01.11	2147.04.01
LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1	2146.02.75 2146.03.09	2146.03.05 2146.03.13	2146.03.07 2146.03.14	2146.03.08 2146.03.15
LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1	2146.02.02 2146.02.17 2146.02.27	2146.02.12 2146.02.19 2146.02.28	2146.02.15 2146.02.23 2146.02.29	2146.02.16 2146.02.26 2146.02.30
LI 09999A-12, Lubrication Instructions, LAV-MEWSS	2147.01.01	2147.01.07	2147.01.11	2147.04.01
LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60	2146.02.51 2146.02.55 2146.02.61 2146.02.65 2146.03.26 2146.03.31	2146.02.52 2146.02.58 2146.02.62 2146.02.68 2146.03.27	2146.02.53 2146.02.59 2146.02.63 2146.02.69 2146.03.29	2146.02.54 2146.02.60 2146.02.64 2146.02.71 2146.03.30
LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2	2146.01.04 2146.02.40 2146.02.46	2146.01.06 2146.02.41	2146.02.35 2146.02.44	2146.02.38 2146.02.45
LO 9-2350-264-12, Lubrication Order, Tank Combat 120mm Gun M1A1	2146.02.74			
MCO 1510.34, Individual Training Standards System (ITSS)	2141.07.05	2146.04.05	2147.05.05	
MCO 1510.67, Individual Training Standards (ITS) System for Ordnance	2141.07.05	2146.04.05	2147.05.05	
Appendix A to ENCLOSURE (5)				

REFERENCES	TASK NUMBERS			
Maintenance Occupational Field 21 VOLUME 3				
MCO 1553.3, Marine Corps Unit Training Management	2141.07.05	2146.04.05	2147.05.05	
MCO 4400.150, Consumer Level Supply Policy Manual	2146.03.36			
MCO 4731.1, Oil Analysis Program for Ground Equipment	2146.04.01	2146.04.03	2147.05.01	2147.05.03
MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)	2141.07.01 2147.05.01	2141.07.03 2147.05.03	2146.04.01	2146.04.03
MCO 4790.18, Corrosion Prevention and Control (CPAC) Program	2141.07.01 2146.02.41 2146.04.03	2141.07.03 2146.02.64 2147.05.01	2146.02.19 2146.02.65 2147.05.03	2146.02.20 2146.04.01
MCO 4855.10, Product Quality Deficiency Report (PQDR)	2141.07.01	2146.04.01	2147.05.01	
MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program	2141.07.01 2147.05.01	2141.07.03 2147.05.03	2146.04.01	2146.04.03
MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment	2141.04.11 2146.04.01 2147.05.01	2141.07.01 2147.01.04	2146.01.06 2147.03.01	2146.02.77 2147.03.24
MCO P4400.150, Consumer-Level Supply Policy Manual	2141.07.01	2146.04.01	2147.05.01	
MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual	2141.07.01 2146.03.36 2147.05.03	2141.07.03 2146.04.01	2146.02.01 2146.04.03	2146.02.77 2147.05.01
MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual	2141.01.10 2141.07.03 2146.03.36 2146.04.04 2147.05.03	2141.03.26 2141.07.04 2146.04.01 2147.01.10 2147.05.04	2141.07.01 2146.02.01 2146.04.02 2147.05.01	2141.07.02 2146.02.77 2146.04.03 2147.05.02
MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)	2141.07.05	2146.04.05	2147.05.05	
MCRP 3-0B, How to Conduct Training (FMFM 0-1A)	2141.07.05	2146.04.05	2147.05.05	
SL-1-2, Index of Authorized Publications for Equipment Support	2141.03.26			

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REFERENCES	TASK NUMBERS
SL-3 08721A, Tool Kit, Armor LAV-25	2147.01.10
SL-3 08723A, Tool Set, F/M242 25mm Cannon	2147.01.10
SL-3 08894A, Tool Kit, Organizational Maintenance, 2nd Echelon	2147.01.10
SL-3 08895A, Tool Kit, Intermediate Maintenance, LAV	2147.01.10
SL-3 08896A, Tool Kit, Maintenance, 4th Echelon, LAV	2147.01.10
SL-3 10262A, GPIA LAV Electronics System Test Set	2147.01.10
SL-3-00456A, Tool Kit, General Mechanic's	2146.02.01 2146.03.36
SL-3-03533A, Tool Set, Wrench Impact	2146.02.01 2146.03.36
SL-3-07769B, Recovery Vehicle, Full-Track, Medium M88A1/M88A2	2146.02.01 2146.03.36
SL-3-07928A, Tool Set, Organizational Maintenance 2nd Echelon, M88A1/M88A2, Recovery Vehicle, Full-Track	2146.02.01 2146.03.36
SL-3-08594A, Stocklist, LAV-25	2147.01.02
SL-3-08651A, Stocklist, LAV-Recovery	2147.01.04
SL-3-08654A, Stocklist, LAV-Logistics	2147.01.08
SL-3-08940A, Launcher and M60A1 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched (AVLB) Scissoring Type	2146.02.01 2146.03.36
SL-3-08953A, Tank, Combat, Full-Track 120mm Gun, M1A1	2146.02.01 2146.03.36
SL-3-09561A, Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon	2146.02.01 2146.03.36
SL-3-09590A, Analyzer Set, Vehicular (STE-M1)	2146.02.01 2146.03.36
SL-3-10025A, Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon	2146.02.01 2146.03.36
SL-4 08594A, Stocklist, Repair Parts, LAV-25	2147.01.11 2147.03.01 2147.03.02 2147.03.04 2147.03.05 2147.03.06 2147.03.07 2147.03.09 2147.03.10 2147.03.11 2147.03.12 2147.03.13 2147.03.14 2147.03.15 2147.03.16 2147.03.17

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REFERENCES	TASK NUMBERS			
	2147.03.22	2147.03.23	2147.03.24	2147.04.01
	2147.04.02	2147.04.05	2147.04.06	2147.04.07
	2147.04.08	2147.04.09	2147.04.10	2147.04.11
	2147.04.12	2147.04.13	2147.04.14	2147.04.15
SL-4 08650A, Stocklist, Repair Parts, LAV-C2	2147.01.11	2147.03.01	2147.04.01	2147.04.07
SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery	2147.01.11	2147.03.01	2147.03.22	2147.03.23
	2147.03.24	2147.04.01	2147.04.07	2147.04.20
	2147.04.21	2147.04.22		
SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank	2147.01.11	2147.03.01	2147.03.18	2147.03.19
	2147.03.20	2147.03.21	2147.04.01	2147.04.07
	2147.04.16	2147.04.17	2147.04.18	2147.04.19
SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense	2147.01.11	2147.03.01	2147.04.01	2147.04.07
SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics	2147.01.11	2147.03.01	2147.04.01	2147.04.07
SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar	2147.01.11	2147.03.01	2147.04.01	2147.04.07
SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS	2147.01.11	2147.03.01	2147.04.01	2147.04.07
SL-4 8A191B/8B040B, Stocklist, Transmission	2147.03.04	2147.04.04		
TI-10340-15/1C, Fuel Requirements, Authorized Fuel for Engine	2147.03.08			
TI-2320-15/55B, Deadline Criteria	2147.01.01			
TI-5600, Publication Info MC Equipment	2141.03.26			
TM 0726678-25&P/2, AAV, Command, Model 7A1, AAVC7A1	2141.03.02			
TM 07267B-10/1A, Operator's Manual, AAVR7A1	2141.01.10			
TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle	2141.01.01	2141.01.06	2141.01.07	2141.01.08
	2141.03.02			
TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1	2141.03.02	2141.03.24	2141.04.11	
TM 07268-10A/1A, Operator's Manual, AAVC7A1 Command Vehicle	2141.01.01			
TM 08594A-10-1C, Operator's Manual,	2147.01.02	2147.03.16	2147.03.25	2147.04.23

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REFERENCES	TASK NUMBERS			
LAV-25 Turret				
TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25	2147.01.01	2147.01.02	2147.01.03	
TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret	2147.01.11	2147.03.01	2147.03.09	2147.03.10
	2147.03.11	2147.03.15	2147.03.16	2147.03.17
TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull	2147.01.11	2147.03.01	2147.03.02	2147.03.03
	2147.03.04	2147.03.05	2147.03.06	2147.03.07
	2147.03.08	2147.03.09	2147.03.10	2147.03.11
	2147.03.12	2147.03.13	2147.03.14	2147.03.15
	2147.04.01	2147.04.05		
TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret	2147.04.13	2147.04.14	2147.04.15	
TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull	2147.04.01	2147.04.02	2147.04.05	2147.04.06
	2147.04.07	2147.04.08	2147.04.09	2147.04.10
	2147.04.11	2147.04.12	2147.04.20	2147.04.21
	2147.04.22			
TM 08650A-10, Operator's Manual, LAV Command & Control	2147.01.06			
TM 08650A-20B, Organizational Maintenance, LAV-C2	2147.01.11	2147.03.01	2147.03.09	2147.03.10
	2147.03.11	2147.04.01		
TM 08650A-34, Intermediate Maintenance, LAV-C2	2147.04.01	2147.04.07		
TM 08651A-10A, Operator's Manual, LAV Recovery	2147.01.01	2147.01.04	2147.03.24	
TM 08651A-20B, Organizational Maintenance, LAV-Recovery	2147.01.11	2147.03.01	2147.03.09	2147.03.10
	2147.03.11	2147.03.22	2147.03.23	2147.03.24
	2147.04.01			
TM 08651A-34, Intermediate Maintenance, LAV-Recovery	2147.04.01	2147.04.07	2147.04.20	2147.04.21
	2147.04.22			
TM 08652A-10/1A, Operator's Manual, LAV-AT Turret	2147.01.03	2147.03.18		
TM 08652A-10/2A, Operator's Manual, LAV Anti-Tank Auto/Hull	2147.01.01			
TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret	2147.01.11	2147.03.01	2147.03.09	2147.03.11
	2147.03.18	2147.03.19	2147.03.20	2147.03.21
	2147.03.27	2147.03.28	2147.04.17	2147.04.18
TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull	2147.01.11	2147.03.01	2147.03.09	2147.04.01

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REFERENCES	TASK NUMBERS
TM 08652A-34/3, Organizational Maintenance, LAV Anti Tank Turret	2147.04.19
TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret	2147.01.11 2147.04.16 2147.04.17 2147.04.18
TM 08652A-34/6A, Intermediate Maintenance, LAV Anti Tank Auto/Hull	2147.04.01 2147.04.07
TM 08653A-10/1, Operator's Manual, LAV-Air Defense	2147.01.01 2147.01.09
TM 08653A-20, Organizational Maintenance, LAV-Air Defense	2147.03.01 2147.03.09 2147.03.10 2147.03.11 2147.04.01
TM 08653A-20/2, Organizational Maintenance, LAV Air Defense Auto/Hull	2147.01.11
TM 08653A-34/3, Intermediate Maintenance, LAV Air Defense Auto/Hull	2147.04.01 2147.04.07
TM 08654A-10A, Operator's Manual, LAV Logistics	2147.01.01 2147.01.08
TM 08654A-20B, Organizational Maintenance, LAV-Logistics	2147.01.11 2147.03.01 2147.03.09 2147.04.01
TM 08654A-34, Intermediate Maintenance, LAV-Logistics	2147.04.07
TM 08655A-10A, Operator's Manual, LAV-M	2147.01.01 2147.01.05
TM 08655A-20B, Organizational Maintenance, LAV-Mortar	2147.01.11 2147.03.01 2147.03.09 2147.04.01
TM 08655A-34, Intermediate Maintenance, LAV-Mortar	2147.04.01 2147.04.07
TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun	2147.01.11 2147.03.01 2147.03.25
TM 08672A-30&P, Maintenance Manual, 25mm Automatic Chain Gun	2147.04.23
TM 08953A-10-1, Operator's Manual, Operator Controls, PMCS, and Operation Under Usual Conditions for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams	2146.01.02
TM 08953A-10-2, Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General	2146.01.02

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REFERENCES	TASK NUMBERS			
Abrams				
TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5	2146.02.02	2146.02.05	2146.02.08	2146.02.10
	2146.02.11	2146.02.12	2146.02.13	2146.02.15
	2146.02.16	2146.02.17	2146.02.18	2146.02.19
	2146.02.20	2146.02.21	2146.02.22	2146.02.23
	2146.02.25	2146.02.26	2146.02.75	
TM 08953A-20-2-2, Unit Toubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5	2146.02.02	2146.02.05	2146.02.08	2146.02.10
	2146.02.11	2146.02.12	2146.02.13	2146.02.15
	2146.02.16	2146.02.17	2146.02.18	2146.02.19
	2146.02.20	2146.02.21	2146.02.22	2146.02.23
	2146.02.25	2146.02.26	2146.02.75	
TM 08953A-20-2-3, Unit Troubeshooting and Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5	2146.02.02	2146.02.05	2146.02.08	2146.02.10
	2146.02.11	2146.02.12	2146.02.13	2146.02.15
	2146.02.16	2146.02.17	2146.02.18	2146.02.19
	2146.02.20	2146.02.21	2146.02.22	2146.02.23
	2146.02.25	2146.02.26	2146.02.75	
TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5	2146.02.02	2146.02.05	2146.02.08	2146.02.10
	2146.02.11	2146.02.12	2146.02.13	2146.02.15
	2146.02.16	2146.02.17	2146.02.18	2146.02.19
	2146.02.20	2146.02.21	2146.02.22	2146.02.23
	2146.02.25	2146.02.26	2146.02.75	
TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5	2146.02.02	2146.02.05	2146.02.08	2146.02.10
	2146.02.11	2146.02.12	2146.02.13	2146.02.15
	2146.02.16	2146.02.17	2146.02.18	2146.02.19
	2146.02.20	2146.02.21	2146.02.22	2146.02.23
	2146.02.25	2146.02.26	2146.02.75	
TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4	2146.02.02	2146.02.05	2146.02.19	2146.02.20
	2146.02.21	2146.02.27	2146.02.28	2146.02.29
	2146.02.30	2146.02.31	2146.02.32	2146.02.74
TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4	2146.02.02	2146.02.05	2146.02.19	2146.02.20
	2146.02.21	2146.02.27	2146.02.28	2146.02.29
	2146.02.30	2146.02.31	2146.02.32	2146.02.74
TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4	2146.02.02	2146.02.05	2146.02.19	2146.02.20
	2146.02.21	2146.02.27	2146.02.28	2146.02.29
	2146.02.30	2146.02.31	2146.02.32	2146.02.74
TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4	2146.02.02	2146.02.05	2146.02.19	2146.02.20
	2146.02.21	2146.02.27	2146.02.28	2146.02.29
	2146.02.30	2146.02.31	2146.02.32	2146.02.74
TM 08953A-24-1, Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual Systems Schematics for M1A1	2146.03.01	2146.03.02		
TM 08953A-24P-1, Organizational, Direct	2146.02.05	2146.02.08	2146.02.10	2146.02.11
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REFERENCES	TASK NUMBERS			
Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull	2146.02.12	2146.02.13	2146.02.15	2146.02.16
	2146.02.17	2146.02.18	2146.02.19	2146.02.20
	2146.02.21	2146.02.22	2146.02.23	2146.02.25
	2146.02.26	2146.02.75	2146.03.04	2146.03.09
	2146.03.11			
TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret	2146.02.05	2146.02.19	2146.02.20	2146.02.21
	2146.02.27	2146.02.28	2146.02.29	2146.02.30
	2146.02.31	2146.02.32	2146.02.74	2146.03.12
	2146.03.13	2146.03.14	2146.03.15	
TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2	2146.03.12	2146.03.13	2146.03.14	2146.03.15
TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2	2146.03.01	2146.03.02	2146.03.04	2146.03.05
	2146.03.06	2146.03.07	2146.03.08	2146.03.09
	2146.03.11			
TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2	2146.03.01	2146.03.02	2146.03.04	2146.03.05
	2146.03.06	2146.03.07	2146.03.08	2146.03.09
	2146.03.11			
TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV	2141.01.01	2141.01.02	2141.01.03	2141.01.05
	2141.01.09	2141.03.02	2141.03.23	2141.06.01
TM 09674A-25&P/2, AAV Special Mission Kits w/Ch 1	2141.04.01			
TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles	2141.03.02	2141.03.05	2141.03.06	2141.03.09
	2141.03.17	2141.03.18	2141.03.19	2141.03.21
	2141.03.22	2141.03.23	2141.04.01	2141.04.02
	2141.04.05	2141.04.06	2141.04.07	2141.04.08
	2141.04.09	2141.04.12	2141.04.13	2141.04.14
	2141.05.11	2141.05.20	2141.05.21	2141.05.25
	2141.05.26	2141.05.27	2141.05.28	2141.05.29
TM 09674A-25&P/4B, Maintenance Instructions for AAVP7A1	2141.03.05			
TM 09962A-10/1, Operator's Manual, MK 154 Line Charge	2141.06.01			
TM 09962A-13&P/2, MK 154 Mine Charge Kit	2141.06.01			
TM 0999914/1, Organizational Maintenance, LAV-MEWSS	2147.01.11	2147.03.01	2147.03.09	2147.03.10
	2147.03.11			
TM 09999A-10/2, Operator's Manual, LAV MEWSS	2147.01.01	2147.01.07		

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REFERENCES	TASK NUMBERS			
TM 09999A-14, MEWSS	2147.04.01	2147.04.07		
TM 10004A-25&P2, AAV Upgunned Weapon Station	2141.03.02 2141.05.22	2141.03.23 2141.05.29	2141.03.25 2141.05.30	2141.04.10
TM 11-5820-890-10-1, Operator's Manual, SINCARS Ground, Combat Net Radio, ICOM	2141.01.05	2146.01.08		
TM 2590-10/1, Operator's Manual, Blade, Mine Clearing	2146.02.07	2146.03.16		
TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank	2146.02.07	2146.02.33	2146.03.16	
TM 3-1040-266-20&P, Organizational Maintenance Manual: Launcher, Grenade, Smoke: Screening, RP, M239	2146.02.48	2146.02.70		
TM 4700-15/1, Ground Equipment Record Procedures	2141.01.04 2141.07.02 2146.04.01 2147.01.02 2147.01.06 2147.01.10 2147.03.06 2147.03.10 2147.03.14 2147.03.18 2147.03.22 2147.03.28 2147.04.05 2147.04.09 2147.04.13 2147.04.17 2147.04.21 2147.05.02	2141.03.26 2141.07.03 2146.04.02 2147.01.03 2147.01.07 2147.03.02 2147.03.07 2147.03.11 2147.03.15 2147.03.19 2147.03.23 2147.04.02 2147.04.06 2147.04.10 2147.04.14 2147.04.18 2147.04.22 2147.05.03	2141.03.28 2146.01.06 2146.04.03 2147.01.04 2147.01.08 2147.03.03 2147.03.08 2147.03.12 2147.03.16 2147.03.20 2147.03.24 2147.04.03 2147.04.07 2147.04.11 2147.04.15 2147.04.19 2147.04.23	2141.07.01 2146.02.77 2147.01.01 2147.01.05 2147.01.09 2147.03.04 2147.03.09 2147.03.13 2147.03.17 2147.03.21 2147.03.25 2147.04.04 2147.04.08 2147.04.12 2147.04.16 2147.04.20 2147.05.01
TM 4795-12/1, Organizational Corrosion Prevention and Control Procedures	2141.01.02	2141.03.02		
TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60	2146.02.51 2146.02.55 2146.02.61 2146.02.65 2146.02.69 2146.03.28	2146.02.52 2146.02.58 2146.02.62 2146.02.66 2146.02.70	2146.02.53 2146.02.59 2146.02.63 2146.02.67 2146.02.71	2146.02.54 2146.02.60 2146.02.64 2146.02.68 2146.03.27
TM 5-5420-202-20, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge	2146.03.34	2146.03.35		
TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB,	2146.02.51 2146.02.55	2146.02.52 2146.02.58	2146.02.53 2146.02.59	2146.02.54 2146.02.60
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REFERENCES	TASK NUMBERS			
Armored Vehicle Launcher Bridge, Vol. 1 of 4	2146.02.61	2146.02.62	2146.02.63	2146.02.64
	2146.02.65	2146.02.66	2146.02.67	2146.02.68
	2146.02.69	2146.02.70	2146.02.71	
TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4	2146.02.51	2146.02.52	2146.02.53	2146.02.54
	2146.02.55	2146.02.58	2146.02.59	2146.02.60
	2146.02.61	2146.02.62	2146.02.63	2146.02.64
	2146.02.65	2146.02.66	2146.02.67	2146.02.68
	2146.02.69	2146.02.70	2146.02.71	
TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4	2146.02.51	2146.02.52	2146.02.53	2146.02.54
	2146.02.55	2146.02.58	2146.02.59	2146.02.60
	2146.02.61	2146.02.62	2146.02.63	2146.02.64
	2146.02.65	2146.02.66	2146.02.67	2146.02.68
	2146.02.69	2146.02.70	2146.02.71	
TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4	2146.02.51	2146.02.52	2146.02.53	2146.02.54
	2146.02.55	2146.02.58	2146.02.59	2146.02.60
	2146.02.61	2146.02.62	2146.02.63	2146.02.64
	2146.02.65	2146.02.66	2146.02.67	2146.02.68
	2146.02.69	2146.02.70	2146.02.71	
TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge	2146.02.51	2146.02.52	2146.02.53	2146.02.54
	2146.02.55	2146.02.58	2146.02.59	2146.02.60
	2146.02.61	2146.02.62	2146.02.63	2146.02.64
	2146.02.65	2146.02.66	2146.02.67	2146.02.68
	2146.02.69	2146.02.70	2146.02.71	2146.03.26
	2146.03.27	2146.03.28	2146.03.29	2146.03.30
	2146.03.31	2146.03.33	2146.03.34	2146.03.35
TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60	2146.03.26	2146.03.27	2146.03.28	2146.03.29
	2146.03.30	2146.03.31	2146.03.33	2146.03.34
	2146.03.35			
TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge	2146.03.26	2146.03.27	2146.03.28	2146.03.29
	2146.03.30	2146.03.31	2146.03.33	2146.03.34
	2146.03.35			
TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Ustr	2146.02.51	2146.02.52	2146.02.73	
TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched	2146.02.51	2146.02.52	2146.02.73	

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REFERENCES	TASK NUMBERS			
TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge	2146.02.51	2146.02.52	2146.02.53	2146.02.54
Armored-Vehicle-Launched Scissoring Type, Class 60	2146.02.55	2146.02.59	2146.02.60	2146.02.61
	2146.02.62	2146.02.63	2146.02.64	2146.02.65
	2146.02.66	2146.02.67	2146.02.68	2146.02.69
	2146.02.70	2146.02.71		
TM 750-116, General Procedures for Purging and Charging of Fire Control Instruments	2146.02.02			
TM 8A191B-34/1, XMSN Auto Model 653	2147.03.04	2147.04.04	2147.04.05	
TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged	2147.03.03	2147.04.03	2147.04.05	
TM 8F152B-25&P/A, AAV Power Plant Assembly	2141.03.07	2141.03.08	2141.03.09	2141.03.10
	2141.03.12	2141.03.16	2141.03.17	2141.04.02
	2141.04.03	2141.04.04	2141.05.01	2141.05.02
	2141.05.03	2141.05.04	2141.05.06	2141.05.08
	2141.05.09	2141.05.10	2141.05.12	2141.05.15
	2141.05.16	2141.05.17	2141.05.19	
TM 8H161B-20, Light Armored Vehicle (LAV) Thermal Sight System	2147.03.26			
TM 8H161B-34, Light Armored Vehicle (LAV) Thermal Sight System	2147.03.26			
TM 9-1000-202-14, Evaluation of Cannon Tubes	2146.03.15			
TM 9-1005-213-10, Machine Gun, .50-Caliber Browning, M2, Heavy Barrel, Flexible	2146.01.06			
TM 9-1200-206-34-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 1 of 3 for M1 and M1A1 Sighting and Fire Control	2146.03.12			
TM 9-1200-206-34-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 2 of 3 for M1 and M1A1 Sighting and Fire Control	2146.03.12			
TM 9-1200-206-34-3, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol 3 of 3 for M1 and M1A1 Sighting and Fire Control	2146.03.12			
TM 9-1200-206-34P-2, Direct Support and General Support Repair Parts and Special Tools List for M1, IPM1, and M1A1 Sighting and Fire Control Components	2146.03.12			
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REFERENCES	TASK NUMBERS			
TM 9-207, Oil Analysis Sampling Valve	2146.01.06			
TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2	2146.01.04	2146.01.05	2146.01.06	2146.01.07
	2146.01.08	2146.02.35	2146.02.36	2146.02.37
	2146.02.38	2146.02.39	2146.02.40	2146.02.41
	2146.02.42	2146.02.43	2146.02.44	2146.02.45
	2146.02.46	2146.02.47	2146.02.48	2146.02.49
	2146.02.76	2146.03.19		
TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1	2146.02.35	2146.02.36	2146.02.37	2146.02.38
	2146.02.39	2146.02.40	2146.02.41	2146.02.42
	2146.02.43	2146.02.44	2146.02.45	2146.02.46
	2146.02.47	2146.02.48	2146.02.49	2146.03.19
	2146.03.20			
TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track; Medium, M88A1/M88A2	2146.02.35	2146.02.38	2146.02.39	2146.02.40
	2146.02.41	2146.02.42	2146.02.43	2146.02.44
	2146.02.45	2146.02.46	2146.02.47	2146.02.48
	2146.02.49	2146.02.76	2146.03.20	
TM 9-2350-256-24P-2, Unit, Direct Support, and General Support Maintenance Repair Parts & Special Tools List for M88A1/M88A2 Winch, Power Take-off and Hoist System	2146.02.44			
TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1/M88A2	2146.03.19	2146.03.20	2146.03.21	2146.03.25
TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1/M88A2 Winch, Power Take-off and Hoist System	2146.03.19	2146.03.20	2146.03.21	2146.03.25
TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track; Medium M88A1/M88A2	2146.03.19	2146.03.21	2146.03.25	
TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2	2146.03.12	2146.03.13	2146.03.14	2146.03.15
TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2	2146.01.04	2146.01.05	2146.01.06	2146.01.07
	2146.01.08	2146.02.35	2146.02.36	2146.02.37
	2146.02.38	2146.02.39	2146.02.40	2146.02.41
	2146.02.42	2146.02.43	2146.02.44	2146.02.45
	2146.02.46	2146.02.47	2146.02.48	2146.02.49
	2146.02.75	2146.02.76	2146.02.77	2146.02.78

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REFERENCES	TASK NUMBERS			
	2146.03.19	2146.03.20		
TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2	2146.02.35	2146.02.36	2146.02.37	2146.02.38
	2146.02.39	2146.02.40	2146.02.41	2146.02.42
	2146.02.43	2146.02.44	2146.02.45	2146.02.46
	2146.02.47	2146.02.48	2146.02.49	2146.02.75
	2146.02.77	2146.02.78	2146.03.20	
TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools	2146.02.38	2146.02.39	2146.02.40	2146.02.41
	2146.02.42	2146.02.43	2146.02.44	2146.02.45
	2146.02.46	2146.02.47	2146.02.48	2146.02.49
	2146.02.75	2146.02.76	2146.02.77	2146.02.78
	2146.03.20			
TM 9-237, Welding Theory and Application	2146.01.06			
TM 9-238, Deep-Water Fording of Ordnance Material	2146.02.76			
TM 9-2520-215-34, Direct and General Support and Depot Maintenance for Transmission, Cross Drive Assembly (Allison Model XT 1410-4)	2146.03.23	2146.03.24		
TM 9-2520-276-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual for Transmission Assembly, Model X1100-3B	2146.03.08	2146.03.17		
TM 9-2520-276-34&P, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Final Drive Assemblies, Model X1100-3B	2146.03.07			
TM 9-2520-276-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Transmission Assemblies	2146.03.08	2146.03.17		
TM 9-2540-205-24&P, Heaters, Vehicular Compartment	2141.03.05	2141.04.01	2141.05.13	2146.02.21
	2146.02.42	2146.02.66		
TM 9-2815-220-34, Direct Support and General Support Maintenance Manual for Engine w/Container: Turbosupercharged, Diesel, Fuel Injection, 90 Degree "V" Type, Air-Cooled 12 Cyl, Assembly; Mod-D	2146.03.22			
TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500	2146.03.01	2146.03.02	2146.03.03	2146.03.06

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REFERENCES	TASK NUMBERS
TM 9-2835-255-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Turbine Engine, Field Service Model AGT 1500	2146.03.03
TM 9-4910-571-12&P, Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List Simplified Test Equipment for Internal Combustion Engines-Reprogrammable	2146.02.38
TM 9-4910-741-14-1, STE M1/FVS	2146.02.05 2146.02.13
TM 9-4910-741-14-2, STE M1/FVS	2146.02.05 2146.02.13
TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615	2146.03.01 2146.03.02 2146.03.06 2146.03.12
TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615	2146.03.01 2146.03.02 2146.03.06 2146.03.12
TM 9-6115-542-24&P/1, External Auxiliary Power Unit	2146.02.02 2146.02.05 2146.02.21 2146.02.74 2146.03.18
TM 9-6140-200-12, Operator's Organizational, Direct Support, and General Support Maintenance Manual for Lead-Acid Storage Batteries; 4 HN, 24 V	2146.02.39 2146.02.58
TM 9-6650-235-13&P, M3 Borescope Manual	2146.03.15
UM 4790-5, MIMMS AIS Field Maintenance Procedures	2141.07.01 2141.07.02 2141.07.03 2146.04.01 2146.04.02 2146.04.03 2147.05.01 2147.05.02 2147.05.03

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TRAINING MATERIEL

DOES NOT APPLY TO THIS ORDER.

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AMMUNITION, EXPLOSIVES, AND PYROTECHNICS

DOES NOT APPLY TO THIS ORDER.

DISTANCE LEARNING PRODUCTS

1. General. This Appendix includes a list of all currently available or planned distance learning (DL) products, including Marine Corps Institute (MCI) publications, designed to provide training related to any task in this OccFld.

2. Format. The columns are as follows:

a. DISTANCE LEARNING PRODUCTS. This column summarizes all DL products assigned to at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks associated with the corresponding DL product.

<u>DISTANCE LEARNING PRODUCTS</u>	<u>TASK NUMBERS</u>
MCI 18.43, Operating the M1A1 Tank	2146.01.02

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PERFORMANCE SUPPORT TOOLS

DOES NOT APPLY TO THIS ORDER.

Appendix E to
ENCLOSURE (5)

INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure contains all of the ITSs for this OccFld, grouped by MOS. Each MOS is contained in a separate Appendix to Enclosure (6).

2. Format. For each ITS, the following elements of information are provided:

a. TASK. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for the appropriate MOS are designated as "Core." Those advanced skills that are mission, grade, or billet specific are designated as "Core Plus."

b. CONDITION(S). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. STANDARD(S). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. PERFORMANCE STEPS. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. INITIAL TRAINING SETTING. All ITSs are assigned an initial training setting that includes a specific location for initial instruction [Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)], a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

f. REFERENCE(S). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

g. TRAINING MATERIEL (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard. Mandatory items are preceded by an asterisk(*).

h. AMMUNITION (Optional). This table, if present, depicts the ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

i. DISTANCE LEARNING PRODUCT(S) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this TASK.

j. PERFORMANCE SUPPORT TOOL(S) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

k. ADMINISTRATIVE INSTRUCTIONS (Optional). Administrative instructions provide the

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trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

ENCLOSURE (6)

MOS 2141, ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

TASK: 2141.01.01 (CORE) PERFORM AAV/FOV OPERATOR PMCS

CONDITION(S): Given an AAV/FOV, assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks and services.
2. Perform during operation checks and services.
3. Perform after operation checks and services.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
2. TM 07268-10A/1A, Operator's Manual, AAVC7A1 Command Vehicle
3. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.01.02 (CORE) PERFORM AAV/FOV OPERATOR MAINTENANCE

CONDITION(S): Given an AAV/FOV, assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Lubricate AAV/FOV.
2. Maintain tracks.
3. Maintain drive sprockets.

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4. Maintain cooling system.
5. Maintain fuel system.
6. Maintain batteries.
7. Maintain electrical system.
8. Maintain driver's vision enhancement (DVE).
9. Maintain bilge pumps.
10. Maintain components.
11. Perform fresh water washdown of engine compartment.
12. Comply with hazardous materials handling regulations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
2. TM 4795-12/1, Organizational Corrosion Prevention and Control Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.01.03 (CORE) OPERATE AAV

CONDITION(S): Given an AAV, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Start engine.
2. Operate on land.
3. Operate in water.
4. Operate smoke generation system.
5. Operate personnel heater.

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6. Operate manual fire suppression system.
7. Operate lights.
8. Operate driver's vision enhancement (DVE).
9. Operate crew ventilation system.
10. Operate hatches.
11. Operate exhaust Plenums.
12. Operate ramp.
13. Install/Remove blackout covers.
14. Operate searchlight.
15. Perform recovery operations.
16. Perform emergency procedures.
17. Operate bow plane.
18. Operate bilge pumps.
19. Operate cold start system.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

TASK: 2141.01.04 (CORE) MAINTAIN AAV/FOV EQUIPMENT RECORDS

CONDITION(S): Given AAV/FOV equipment records, access to automated system and applicable software, and the references.

STANDARD(S): To provide operational and maintenance history per the references.

PERFORMANCE STEPS:

1. Record vehicle operation entries in logbook.
2. Record maintenance related entries in logbook.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 4700-15/1, Ground Equipment Record Procedures

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TASK: 2141.01.05 (CORE) OPERATE AAV/FOV COMMUNICATIONS EQUIPMENT

CONDITION(S): Given an AAV/FOV communications equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate audio frequency amplifier AM-7162/VIC-2.
2. Operate frequency selector control C-11291.
3. Operate intercom C-11133/VIC-2.
4. Operate intercom C-111335/VIC-2.
5. Operate SINGARS.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
2. TM 11-5820-890-10-1, Operator's Manual, SINGARS Ground, Combat Net Radio, ICOM

TASK: 2141.01.06 (CORE) OPERATE AAVR7A1 RECOVERY EQUIPMENT

CONDITION(S): Given AAVR7A1 recovery equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To support maintenance, towing, and recovery operations per the reference.

PERFORMANCE STEPS:

1. Perform PMCS on recovery equipment.
2. Operate hydraulic pump.
3. Operate winch.
4. Operate crane.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

Appendix A to
ENCLOSURE (6)

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
-

TASK: 2141.01.07 (CORE) OPERATE AAVR7A1 MAINTENANCE EQUIPMENT

CONDITION(S): Given AAVR7A1 maintenance equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To support mission requirements per the reference.

PERFORMANCE STEPS:

1. Perform operator PMCS on maintenance equipment.
2. Operate alternating current (AC) generator.
3. Prepare welding equipment for operation.
4. Operate air compressor.
5. Operate floodlights/worklights.
6. Install/Remove ramp supports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
-

TASK: 2141.01.08 (CORE) PERFORM LAND BASED RECOVERY WITH THE AAV/FOV

CONDITION(S): Given a mired AAV7A1, an operational AAVR7A1, access to automated system and applicable software, and the references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Survey recovery site.
2. Make recovery calculations.
3. Hook up rigging for recovery.
4. Perform recovery operations.
5. Stow rigging and associated hardware.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Ensure safety precautions for cables under stress are followed.

TASK: 2141.01.09 (CORE PLUS) OPERATE AAVP7A1 COLD WEATHER EQUIPMENT

CONDITION(S): Given an AAVP7A1, assigned tools, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Install winterization kit.
2. Operate and test winterization kit.
3. Remove winterization kit.
4. Store winterization kit.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV

TASK: 2141.01.10 (CORE PLUS) MAINTAIN AAVR7A1 TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, cleaning materials, access to automated system and applicable software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Inventory tools and equipment.
2. Inspect tools and equipment.
3. Perform tool maintenance/cleaning, as required.

4. Annotate discrepancies.
5. Report discrepancies per unit SOP.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable SL-3s
2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS)
Field Procedures Manual
3. TM 07267B-10/1A, Operator's Manual, AAVR7A1

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

TASK: 2141.03.02 (CORE) PERFORM AAV/FOV ORGANIZATIONAL LEVEL PMCS

CONDITION(S): Given an AAV/FOV, assigned tools, access to automated system and applicable software, and the references.

STANDARD(S): To determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform tune-up procedures.
2. Perform 50 hour/semiannual PMCS.
3. Perform 100 hour/annual PMCS.
4. Perform upgunned weapon station (UGWS) PMCS.
5. Perform PMCS on AAVR7A1 unique equipment.
6. Perform corrosion control procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 0726678-25&P/2, AAV, Command, Model 7A1, AAVC7A1
2. TM 07267B-10A/1A, Operator's Manual, AAVR7A1 Recovery Vehicle
3. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1
4. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
5. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
6. TM 10004A-25&P2, AAV Upgunned Weapon Station
7. TM 4795-12/1, Organizational Corrosion Prevention and Control Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.05 (CORE PLUS) MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system and

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applicable software, and the reference.

STANDARD(S): To ensure operational readiness for cold weather operations per the reference.

PERFORMANCE STEPS:

1. Maintain personnel heater.
2. Maintain engine coolant heater.
3. Maintain battery box heat exchanger.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 09674A-25&P/4B, Maintenance Instructions for AAVP7A1
3. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.06 (CORE) MAINTAIN AAV/FOV SUSPENSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot suspension system.
2. Remove suspension components.
3. Inspect suspension components.
4. Repair components, as required.
5. Install suspension components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

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1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.07 (CORE) MAINTAIN AAV/FOV POWER PLANT

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Remove power plant.
2. Repair power plant.
3. Test power plant with ground hop kit.
4. Install power plant.
5. Test power plant inside vehicle.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. Due to power plant weight, the RAMRS coolant tower must be removed prior to performance step 1 and 4.
-

TASK: 2141.03.08 (CORE) MAINTAIN AAV/FOV TRANSMISSION

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

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PERFORMANCE STEPS:

1. Troubleshoot transmission assembly.
2. Remove transmission components.
3. Inspect transmission components.
4. Maintain transmission electrical system.
5. Install transmission components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.09 (CORE) MAINTAIN AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot engine.
2. Remove engine components.
3. Inspect engine components.
4. Install engine components.
5. Maintain engine electrical systems.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

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ENCLOSURE (6)

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.10 (CORE) MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Inspect cooling tower assembly.
2. Disassemble cooling tower assembly.
3. Test radiator assembly.
4. Assemble cooling tower assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.11 (CORE) MAINTAIN AAV/FOV FINAL DRIVES

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot final drive assembly.
2. Disconnect final drive assembly.
3. Remove final drive assembly.

4. Inspect final drive assembly.
5. Install final drive assembly.
6. Test final drive assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.12 (CORE PLUS) MAINTAIN AAV/FOV AIR ASPIRATION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot aspiration system.
2. Maintain air intake system.
3. Maintain grill and access system.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.13 (CORE PLUS) MAINTAIN AAV/FOV WATER PROPULSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot water drive system.
2. Maintain water jet deflectors.
3. Maintain water propulsion unit drive shafts.
4. Maintain right angle drives.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.14 (CORE) MAINTAIN AAV/FOV HYDRAULIC SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot hydraulic system.
2. Maintain hydraulic bilge pump circuit.
3. Maintain water steer circuit.
4. Maintain hydraulic pump and reservoir circuit.
5. Maintain hydraulic ramp control circuit.
6. Maintain hydraulic plenum circuit.
7. Maintain hydraulic bow plane circuit.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.15 (CORE) MAINTAIN AAV/FOV ELECTRICAL SYSTEMS

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot electrical systems.
2. Maintain charging system circuit.
3. Maintain starting circuit.
4. Maintain cold start circuit.
5. Maintain lights and horn circuit.
6. Maintain slave circuit.
7. Maintain smoke generation system circuit.
8. Maintain tactical navigation circuit.
9. Maintain electrical bilge pump circuit.
10. Maintain power train circuit.
11. Maintain ventilation system circuit.
12. Maintain indicator panel and components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S): (NONE)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.16 (CORE) MAINTAIN AAV/FOV FUEL SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

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STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Maintain fuel system components.
2. Troubleshoot fuel system.
3. Inspect fuel system components.
4. Remove fuel system components.
5. Install fuel system components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.17 (CORE) MAINTAIN AAV/FOV CONTROLS AND LINKAGES

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot controls and linkages.
2. Maintain brake controls and linkages.
3. Maintain fuel throttle controls and linkages.
4. Maintain steering linkages.
5. Maintain water jet deflector control components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.18 (CORE) MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot automatic fire suppression system.
2. Maintain automatic fire suppression system components.
3. Troubleshoot manual fire suppression system.
4. Maintain manual fire suppression system components.
5. Utilize automatic fire suppression tester.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.19 (CORE) MAINTAIN AAV/FOV VENTILATION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot ventilation system.

2. Maintain crew and engine compartment ventilation system.
3. Maintain vent fan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.03.21 (CORE PLUS) RECOVER SUBMERGED AAV/FOV

CONDITION(S): Given a crew, assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To prevent further damage or loss of assets per the references.

PERFORMANCE STEPS:

1. Conduct recovery operations.
2. Conduct salvage operations.
3. Conduct reconditioning operations.

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: SSgt

REFERENCE(S):

1. Unit Maintenance Management Standing Operating Procedures (MMSOP)
2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

TASK: 2141.03.22 (CORE PLUS) PREPARE AAV/FOV FOR SHIPMENT

CONDITION(S): Given a crew, assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To protect assets from physical damage during shipment per the reference.

PERFORMANCE STEPS:

1. Preserve vehicle.

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2. Load and block vehicle.
3. Depreserve vehicle.

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: Sgt

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
-

TASK: 2141.03.23 (CORE PLUS) MAINTAIN STORED AAV/FOV

CONDITION(S): Given a stored AAV/FOV/RAMRS, assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To protect assets from physical damage and deterioration per the references.

PERFORMANCE STEPS:

1. Perform in-storage care on vehicle.

INITIAL TRAINING SETTING: MOJT Sustainment: 36 Req By: Sgt

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
3. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.24 (CORE) MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain recovery equipment.

2. Maintain maintenance equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.03.25 (CORE) MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot UGWS and components.
2. Inspect UGWS.
3. Remove UGWS components.
4. Maintain components.
5. Install components.
6. Remove UGWS.
7. Install UGWS.
8. Adjust UGWS.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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TASK: 2141.03.26 (CORE PLUS) PERFORM AN AAV/FOV MODIFICATION

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure vehicle upgrades are accomplished per the references.

PERFORMANCE STEPS:

1. Identify applicable modifications.
2. Perform modification.
3. Record status of modification on applicable forms and records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Applicable Modification Instruction (MI) or Engineering Change Proposal (ECP)
2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
3. SL-1-2, Index of Authorized Publications for Equipment Support
4. TI-5600, Publication Info MC Equipment
5. TM 4700-15/1, Ground Equipment Record Procedures

TASK: 2141.03.28 (CORE PLUS) PERFORM QUALITY CONTROL INSPECTION

CONDITION(S): Given a repaired piece of equipment, applicable tools and equipment, access to automated system and applicable software, an Equipment Repair Order (ERO), and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Identify applicable reference.
2. Record inspection data on checklist.
3. Recommend corrective action, as required.
4. Record inspection on ERO.

INITIAL TRAINING SETTING: MOJT Sustainment: 24 Req By: Cpl

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REFERENCE(S):

1. Applicable equipment technical manuals
2. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Reference(s) for secondary repairables are too numerous to list.
2. Ensure applicable technical manuals are available to conduct inspections on secondary repairables.
3. Assistance from the unit Maintenance Officer or Chief may be required.

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DUTY AREA 04 - THIRD ECHELON INTERMEDIATE MAINTENANCE

TASK: 2141.04.01 (CORE PLUS) MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness for cold weather operations per the references.

PERFORMANCE STEPS:

1. Maintain personnel heater.
2. Maintain engine coolant heater.
3. Maintain battery box heat exchanger.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/2, AAV Special Mission Kits w/Ch 1
2. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
3. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.02 (CORE PLUS) MAINTAIN AAV/FOV TRANSMISSION

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Separate engine and transmission.
2. Remove components.
3. Inspect components.
4. Repair components.

MCO 1510.67B
06 NOV 02

5. Test components.
6. Install components.
7. Join engine and transmission.
8. Perform transmission run-in and test.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.03 (CORE PLUS) MAINTAIN AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Separate engine and transmission.
2. Remove components.
3. Inspect components.
4. Repair components.
5. Test components.
6. Install components.
7. Perform engine tune-up.
8. Join engine and transmission.
9. Perform engine ground hop test.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

Appendix A to
ENCLOSURE (6)

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.04 (CORE PLUS) MAINTAIN AAV/FOV COOLING TOWER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble cooling fan assembly.
2. Inspect components.
3. Repair components.
4. Assemble cooling fan assembly.
5. Test cooling fan assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.05 (CORE PLUS) MAINTAIN AAV/FOV FINAL DRIVE

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

MCO 1510.67B
06 NOV 02

1. Disassembly of Final Drive.
2. Inspect Final Drive.
3. Repair Final Drive.
4. Assemble Final Drive.
5. Test Final Drive.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.06 (CORE PLUS) MAINTAIN AAV/FOV WATER PROPULSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain water propulsion units.
2. Maintain water jet deflectors.
3. Maintain water propulsion unit drive shafts.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

Appendix A to
ENCLOSURE (6)

TASK: 2141.04.07 (CORE PLUS) MAINTAIN AAV/FOV HYDRAULIC SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain hydraulic bilge pumps' circuits.
2. Maintain hydraulic water steer unit circuit.
3. Maintain hydraulic pump and reservoir circuit.
4. Maintain hydraulic ramp control circuit.
5. Maintain hydraulic plenum circuit.
6. Maintain hydraulic bow plane circuit.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.08 (CORE PLUS) MAINTAIN AAV/FOV ELECTRICAL SYSTEMS

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain charging system circuit.
2. Maintain starting circuit.
3. Maintain instrument distribution box.
4. Maintain power distribution box.
5. Maintain cold start circuit.

6. Maintain lights and horn circuit.
7. Maintain power plant circuit.
8. Maintain slave circuit.
9. Maintain smoke generation system circuit.
10. Maintain electrical bilge pump circuit.
11. Maintain power train circuit.
12. Maintain ventilation system circuit.
13. Maintain indicator panel and components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.09 (CORE PLUS) MAINTAIN AAV/FOV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Troubleshoot automatic fire suppression system.
2. Remove automatic fire suppression system components.
3. Install automatic fire suppression system components.
4. Maintain automatic fire suppression system components.
5. Troubleshoot manual fire suppression system.
6. Remove manual fire suppression system components.
7. Install manual fire suppression system components.
8. Maintain manual fire suppression system components.

Appendix A to
ENCLOSURE (6)

9. Utilize automatic fire suppression tester.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.10 (CORE PLUS) MAINTAIN AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Remove components.
2. Inspect components.
3. Repair components.
4. Install components.
5. Adjust components.
6. Test components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.11 (CORE PLUS) MAINTAIN AAVR7/FOV UNIQUE EQUIPMENT

MCO 1510.67B
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CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Maintain air compressor.
2. Maintain welder.
3. Maintain winch.
4. Maintain crane.
5. Maintain fairlead.
6. Maintain magnetic clutches.
7. Maintain AC power electrical system.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. TM 07267B-25&P/2, AAV, Recovery Model 7A1 AAVR7A1

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.04.12 (CORE PLUS) MAINTAIN AAV/FOV TRACK TENSION ADJUSTER

CONDITION(S): Given assigned tools and equipment, and access to automated system and applicable software.

STANDARD(S): To ensure operational readiness.

PERFORMANCE STEPS:

1. Disassemble track tension adjuster.
2. Inspect components.
3. Repair components.

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ENCLOSURE (6)

4. Assemble components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.13 (CORE PLUS) REPAIR HYDRAULIC CYLINDER

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble hydraulic cylinder.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test hydraulic cylinder.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.04.14 (CORE PLUS) REPAIR BOW PLANE ACTUATOR

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

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ENCLOSURE (6)

MCO 1510.67B
06 NOV 02

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble bow plane actuator.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test bow plane actuator.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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DUTY AREA 05 - FOURTH ECHELON INTERMEDIATE MAINTENANCE

TASK: 2141.05.01 (CORE PLUS) REPAIR TRANSMISSION ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble transmission.
2. Inspect transmission.
3. Repair transmission.
4. Assemble transmission.
5. Adjust transmission components.
6. Run-in and test on dynamometer.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.02 (CORE PLUS) REPAIR SPEED CHANGE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble speed change assembly.
2. Inspect components.
3. Test components.
4. Repair components.

5. Assemble components.
6. Test components.
7. Assemble speed change assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.03 (CORE PLUS) REPAIR AAV/FOV CLUTCH PACK ASSEMBLIES

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test clutch pack assembly.
2. Disassemble clutch pack assemblies.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

Appendix A to
ENCLOSURE (6)

TASK: 2141.05.04 (CORE PLUS) REPAIR BRAKE AND STEER ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Inspect brake and steer assembly.
2. Disassemble brake and steer assembly.
3. Inspect components.
4. Repair components.
5. Assemble components.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.06 (CORE PLUS) REPAIR RANGE SELECTOR VALVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble range selector valve assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

Appendix A to
ENCLOSURE (6)

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.08 (CORE PLUS) REPAIR POWER TAKE-OFF ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power take-off assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.09 (CORE PLUS) REPAIR MARINE DRIVE FRICTION CLUTCH

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test marine drive friction clutch.
2. Disassemble marine drive friction clutch.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test clutch.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.10 (CORE PLUS) REPAIR FAN DRIVE FRICTION CLUTCH

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test fan drive friction clutch.
2. Disassemble fan drive friction clutch.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test clutch.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.11 (CORE PLUS) REPAIR POWER DRIVEN ROTARY PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power driven rotary pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.12 (CORE PLUS) REPAIR SOLENOID VALVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test solenoid valve assembly.
2. Disassemble solenoid valve assembly.

3. Inspect components.
4. Repair components.
5. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.13 (CORE PLUS) REPAIR PERSONNEL HEATER

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test personnel heater.
2. Disassemble personnel heater.
3. Inspect components.
4. Repair components.
5. Assemble heater assembly.
6. Test heater assembly.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.15 (CORE PLUS) REPAIR AAV/FOV ENGINE

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Disassemble engine.
2. Inspect engine.
3. Repair engine.
4. Assemble engine.
5. Perform engine tune-up.
6. Perform engine run-in and Dynamometer.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.16 (CORE PLUS) REPAIR AAV/7A1 VT400 TURBOCHARGER

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble turbocharger.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.17 (CORE PLUS) REPAIR WATER PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble water pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.19 (CORE PLUS) REPAIR AAV/FOV CYLINDER HEADS

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

MCO 1510.67B
06 NOV 02

1. Disassemble cylinder heads.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test cylinder head.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8F152B-25&P/A, AAV Power Plant Assembly

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.20 (CORE PLUS) REPAIR AAV/FOV FINAL DRIVE ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble final drive assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Test final drive assembly.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

Appendix A to
ENCLOSURE (6)

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.21 (CORE PLUS) REPAIR HYDRAULIC BILGE PUMP

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble hydraulic bilge pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2141.05.22 (CORE PLUS) REPAIR AAV/FOV UPGUNNED WEAPON STATION (UGWS)

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Test components.
2. Disassemble components.
3. Inspect components.
4. Repair components.
5. Assemble components.

6. Test components.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.25 (CORE PLUS) REPAIR WATER JET PROPULSION UNIT

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble water jet propulsion unit.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.26 (CORE PLUS) REPAIR DEFLECTOR ACTUATOR ASSEMBLY

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble deflector actuator assembly.
2. Inspect components.
3. Repair components.
4. Assemble components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.27 (CORE PLUS) REPAIR CREW VENT FAN

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble crew vent fan.
2. Inspect components.
3. Repair components.
4. Assemble fan components.
5. Test crew vent fan.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

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ENCLOSURE (6)

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2141.05.28 (CORE PLUS) REPAIR RADIATOR

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble radiator.
2. Inspect radiator.
3. Repair radiator.
4. Assemble radiator.
5. Test radiator.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.29 (CORE PLUS) REPAIR ELEVATION MECHANISM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble elevation mechanism.
2. Inspect components.
3. Repair components.

4. Assemble components.
5. Perform mechanism test.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-25&P/4, Assault Amphibious Vehicle, 7A1 Family of Vehicles
2. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2141.05.30 (CORE PLUS) REPAIR POWER-ASSISTED TRAVERSE MECHANISM

CONDITION(S): Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble power-assisted traverse mechanism.
2. Inspect components.
3. Repair components.
4. Assemble components.
5. Perform mechanism test.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 10004A-25&P2, AAV Upgunned Weapon Station

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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DUTY AREA 06 - MK154 MAINTENANCE

TASK: 2141.06.01 (CORE PLUS) MAINTAIN AAV/FOV MK154 LAUNCHER

CONDITION(S): Given an AAV/FOV, an AAVR7A1, a MK154 Line Charge Kit, assigned tools and equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Inventory MK154 kit.
2. Install MK154.
3. Adjust MK154.
4. Conduct manual operation checks on MK154.
5. Conduct powered operation checks on MK154.
6. Maintain electrical system.
7. Maintain hydraulic system.
8. Remove MK154.
9. Store MK154.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09674A-10/3A, Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
2. TM 09962A-10/1, Operator's Manual, MK 154 Line Charge
3. TM 09962A-13&P/2, MK 154 Mine Charge Kit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. The AAV/FOV must be on level ground with sufficient overhead clearance to install or remove the MK154.

Appendix A to
ENCLOSURE (6)

DUTY AREA 07 - ADMINISTRATIVE FUNCTIONS

TASK: 2141.07.01 (CORE PLUS) MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Ensure maintenance of the technical publications library.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. ATCLASS II+ User's Manual
2. Applicable equipment technical manuals
3. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
5. MCO 4855.10, Product Quality Deficiency Report (PQDR)
6. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
7. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
8. MCO P4400.150, Consumer-Level Supply Policy Manual

9. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
 10. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
 11. TM 4700-15/1, Ground Equipment Record Procedures
 12. UM 4790-5, MIMMS AIS Field Maintenance Procedures
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TASK: 2141.07.02 (CORE PLUS) ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Ensure compliance with maintenance management programs, as applicable:
 - a. Modification Control Program
 - b. Warrant Program
 - c. Inspect and Repair Only As Necessary Program
 - d. WIR Program
 - e. Quality Control Program
 - f. Administrative Dead Line Program
 - g. Contact Team Program
 - h. Maintenance Stand-Down Program
 - i. Corrosion Prevention and Control Program
 - j. Hazardous Communication Program
 - k. Tool Control and Calibration Programs
 - l. Embarkation Program
4. Ensure actions are completed to correct any deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
 2. TM 4700-15/1, Ground Equipment Record Procedures
 3. UM 4790-5, MIMMS AIS Field Maintenance Procedures
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TASK: 2141.07.03 (CORE PLUS) PERFORM OPERATOR TRAINING

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.
2. Provide instruction and guidance on performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
3. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
4. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
5. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
6. TM 4700-15/1, Ground Equipment Record Procedures
7. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

TASK: 2141.07.04 (CORE PLUS) PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system and applicable software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance schedule.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Identify and validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expended bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc report.
13. Perform evacuation procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. ATLASS II+ User's Manual
 2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
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TASK: 2141.07.05 (CORE PLUS) CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies, and the references.

STANDARD(S): To provide appropriate training sustainment and progression for subordinates per the references.

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ENCLOSURE (6)

PERFORMANCE STEPS:

1. Review the annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements, as needed.
6. Conduct ordnance maintenance training appropriate to unit size and mission.
7. Participate in unit training evaluations and inspections, as required.
8. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm
2. MCO 1510.34, Individual Training Standards System (ITSS)
3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3
4. MCO 1553.3, Marine Corps Unit Training Management
5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)
6. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

MOS 2146, MAIN BATTLE TANK REPAIRER TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

TASK: 2146.01.02 (CORE) OPERATE M1A1 TANK

CONDITION(S): Given an M1A1 tank, ramp or test drive area, and the references.

STANDARD(S): To determine operational readiness per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.
2. Operate vehicle as per instructions.
3. Perform during operation checks.
4. Perform after operation checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-10-1, Operator's Manual, Operator Controls, PMCS, and Operation Under Usual Conditions for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams
2. TM 08953A-10-2, Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams

DISTANCE LEARNING PRODUCT(S):

1. MCI 18.43, Operating the M1A1 Tank

TASK: 2146.01.04 (CORE) PERFORM M88A1/M88A2 OPERATOR PMCS

CONDITION(S): Given an M88A1/M88A2, assigned tools, test equipment, suitable driving area, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.
2. Perform during operation checks and services.
3. Perform post-operation checks.
4. Perform weekly operation checks and services.

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ENCLOSURE (6)

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INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. Steps include inspection and servicing the following items as required: track and suspension system, vision devices, .50-caliber machine gun and mount, instruments, dome and blackout marker lights, engine air cleaner, welding equipment, M88A1/M88A2 under usual condition, gas-particulate filter unit, deep water fording kit, and M239 smoke grenade system.
-

TASK: 2146.01.05 (CORE) TROUBLESHOOT M88A1/M88A2

CONDITION(S): Given an M88A1/M88A2, assigned tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate vehicle as per instructions.
2. Identify any/all malfunctions.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2

ADMINISTRATIVE INSTRUCTIONS:

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ENCLOSURE (6)

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. Steps include inspecting and checking the following items: engine, operator's control, transmission, winches and booms, auxiliary hydraulic system, light system, auxiliary power unit, ventilation blower, personnel heater, tracks and suspension, gas-particulate system, M239 smoke grenade system, and exhaust smoke generating system.
-

TASK: 2146.01.06 (CORE) OPERATE M88A1/M88A2

CONDITION(S): Given an M88A1/M88A2, suitable driving area, and the references.

STANDARD(S): To support maintenance, towing, and recovery operations per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.
2. Perform during operation checks.
3. Perform after operation checks.
4. Operate in normal/adverse conditions.
5. Perform recovery operations.
6. Perform towing operations.
7. Perform lifting operations.
8. Operate vehicle armament system.
9. Maintain logbook.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. FM 20-22, Recovery Vehicle Operations
2. FM 23-65, Browning Machinegun, .50-Caliber HB, M2
3. FM 31-70, Basic Cold Weather Manual
4. FM 31-71, Northern Operations
5. FM 31-76, Mountain Operations
6. FMFRP 4-34, Battlefield Damage Assessment and Repair

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7. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
9. TM 4700-15/1, Ground Equipment Record Procedures
10. TM 9-1005-213-10, Machine Gun, .50-Caliber Browning, M2, Heavy Barrel, Flexible
11. TM 9-207, Oil Analysis Sampling Valve
12. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
13. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
14. TM 9-237, Welding Theory and Application

ADMINISTRATIVE INSTRUCTIONS:

1. Steps include the following: starting/stopping main engine, driving the M88A1/M88A2, stopping the M88A1/M88A2, performing towing and recovery operations, preparing hydraulic system for operations, operating the spade, boom, hoist winch, main winch, gas-particulate filter unit, smoke generator system, M239 smoke grenade system, and .50-caliber machine gun, use of lockout blocks and deep water fording kit, and maintaining the logbook.

TASK: 2146.01.07 (CORE) OPERATE M88A1/M88A2 AUXILIARY POWER UNIT

CONDITION(S): Given an M88A1/M88A2 and the references.

STANDARD(S): To support maintenance and recovery operations per the references.

PERFORMANCE STEPS:

1. Perform pre-operation checks.
2. Perform during operation checks.
3. Conduct emergency hydraulic operations.
4. Conduct refuel/defuel operations.
5. Operate impact wrench.
6. Perform post-operation checks upon completion.
7. Complete maintenance and/or administrative forms and records, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

Appendix B to
ENCLOSURE (6)

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2

TASK: 2146.01.08 (CORE) OPERATE M88A1/M88A2 COMMUNICATIONS SYSTEM

CONDITION(S): Given an M88A1/M88A2 with communications equipment and the references.

STANDARD(S): To ensure effective communication in a combat and garrison environment per the references.

PERFORMANCE STEPS:

1. Perform preventive maintenance checks and services (PMCS).
2. Setup radios for operation.
3. Operate radio sets.
4. Operate intercommunication set.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 11-5820-890-10-1, Operator's Manual, SINCGARS Ground, Combat Net Radio, ICOM
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2

DUTY AREA 02 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

TASK: 2146.02.01 (CORE) MAINTAIN ORGANIZATIONAL TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Inspect and perform user maintenance for common tools.
2. Inspect and perform user maintenance for special tools .
3. Inspect and perform user maintenance for test equipment.
4. Inspect and perform user maintenance for M1A1 tools.
5. Inspect and perform user maintenance for M88A1/M88A2 tools.
6. Inspect and perform user maintenance for AVLB tools.
7. Inventory kits, sets, chests, and equipment as required, and complete applicable forms and records.
8. Requisition required items and reconcile as required with supporting supply source.
9. Complete required maintenance and/or administrative records and procedures, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
3. SL-3-00456A, Tool Kit, General Mechanic's
4. SL-3-03533A, Tool Set, Wrench Impact
5. SL-3-07769B, Recovery Vehicle, Full-Track, Medium M88A1/M88A2
6. SL-3-07928A, Tool Set, Organizational Maintenance 2nd Echelon, M88A1/M88A2, Recovery Vehicle, Full-Track
7. SL-3-08940A, Launcher and M60A1 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched (AVLB) Scissoring Type

8. SL-3-08953A, Tank, Combat, Full-Trackd 120mm Gun, M1A1
9. SL-3-09561A, Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon
10. SL-3-09590A, Analyzer Set, Vehicular (STE-M1)
11. SL-3-10025A, Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.02 (CORE) PERFORM M1A1 PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform semiannual PMCS.
3. Perform biannual/annual PMCS.
4. Perform borescope PMCS.
5. Perform erosion gauge PMCS.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Trackd: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Trackd: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Trackd: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Trackd: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Trackd: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

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6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
8. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
9. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
10. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
11. TM 750-116, General Procedures for Purging and Charging of Fire Control Instruments
12. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.05 (CORE) TROUBLESHOOT M1A1 SYSTEMS

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1 tank, as required.
2. Identify/Isolate malfunctions.
3. Troubleshoot hull system.
4. Troubleshoot turret system.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track:

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120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4

7. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4

8. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4

9. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4

10. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

11. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

12. TM 9-4910-741-14-1, STE M1/FVS

13. TM 9-4910-741-14-2, STE M1/FVS

14. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: fuel supply system, hull auxiliary system, hull electrical system, NBC system, engine system, transmission system, hydraulic system, turret electrical system, hydraulic and gun/turret drive system, fire control system, commander's weapon station system, smoke grenade system, auxiliary system, EAPU electrical system, turret circuit breaker system, and NBC back-up system.

TASK: 2146.02.07 (CORE PLUS) TROUBLESHOOT M1A1 MINE CLEARING BLADE

CONDITION(S): Given an M1A1 equipped with mine clearing blade, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the

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references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Inspect mine clearing blade and control system.
2. Identify/Isolate malfunctions.
3. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 2590-10/1, Operator's Manual, Blade, Mine Clearing
2. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include checking raising indicator lamp, moldboard, and mine clearing blade motor.

TASK: 2146.02.08 (CORE) MAINTAIN M1A1 POWERPACK

CONDITION(S): Given an M1A1 powerpack, appropriate lifting device, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Isolate/Identify discrepancies and unserviceable parts or components
3. Perform corrective maintenance, as required.
4. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat,

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Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: engine rear exhaust duct seals, exhaust duct door assembly panel, exhaust duct nut, covers, screw assembly chain and washers, turbine exhaust duct, engine step plate, plenum-to-engine plain seal, ground hop powerpack, and ground hop pressure fluid filter.

TASK: 2146.02.10 (CORE) MAINTAIN M1A1 INDUCTION SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Perform corrective maintenance on unserviceable parts or components, as required.
4. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

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2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: precleaner-baffle, air cleaner assembly intake filter elements, air cleaner clamp, and pulse jet air system.

TASK: 2146.02.11 (CORE) MAINTAIN M1A1 FUEL SYSTEM

CONDITION(S): Given an M1A1, appropriate lift capability, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

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3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: testing and replacing fuel nozzle, and troubleshooting fuel pumps.

TASK: 2146.02.12 (CORE) MAINTAIN M1A1 COOLING SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank,

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Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: oil cooler fan ducts, oil cooler fan accessory gear box, cleaning left or right side oil cooler assembly, oil cooler fan, fan drive unit, double universal propeller shaft, engine and left side transmission oil cooler fan shroud seal, right side transmission oil cooler fan shroud seal, and oil cooler fan drive unit oil tube assemblies.

TASK: 2146.02.13 (CORE) MAINTAIN M1A1 ELECTRICAL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-TrackeD: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-TrackeD:

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120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

7. TM 9-4910-741-14-1, STE M1/FVS

8. TM 9-4910-741-14-2, STE M1/FVS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: generator, voltage regulator, starter motor 100-amp electromagnetic relay, ignition electrical, ignition exciter, engine starter, driver's instrument panel, driver's master control panel, driver's alert panel, air temperature controller, digital electronic control unit and components, hull networks distribution box and components, disconnect panel junction box, stoplight switch assembly and electrical bracket, headlights and components, stoplight-taillight and components, terminal boards (buss bar), turret networks box, tank commander's panel, turret distribution valve, slip ring, loader's panel, and maintaining batteries, wiring harnesses, and cable assemblies.

TASK: 2146.02.15 (CORE PLUS) MAINTAIN M1A1 FINAL DRIVE

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete maintenance and/or administrative records and procedures, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

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3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: final drive tube assembly, final drive, final drive packing retainer and packing, broken final drive cam headed straight pin or disconnect cam, and connecting final drive.

TASK: 2146.02.16 (CORE PLUS) MAINTAIN M1A1 BRAKE SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: dial pressure gauge, parking brake components, parking brake lock, service brake control components, and adjusting parking brake control assemblies and service brake control assembly.

TASK: 2146.02.17 (CORE) MAINTAIN M1A1 TRACK AND SUSPENSION

CONDITION(S): Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: suspension torsion bars, torsion bar cover, track support roller, idler wheel hub and arm assembly, upper spindle oil seal retainer, track adjusting link replacement, solid rubber roadwheel, shock absorber torsion bar housing assembly maintenance, road wheel hub and arm assembly, and track assembly.

TASK: 2146.02.18 (CORE PLUS) MAINTAIN M1A1 STEERING SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track:

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120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5

3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5

4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5

5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5

6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: replacing throttle steering assembly components, steering system components, and shift control assembly; adjusting throttle control and steering linkages; and testing throttle, steering, and shift control assemblies.

TASK: 2146.02.19 (CORE PLUS) MAINTAIN M1A1 HULL EXTERIOR

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
3. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5

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4. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
5. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
6. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
7. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
8. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
9. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
10. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
11. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
12. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
13. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: top deck and grilles, sponson, battery, precleaner, and engine covers, doors, and grille, NBC sponson box metal grille and access covers, upper ammunition armored plates, lower blow-off plates, hull skirts and vehicular fenders, rear grille mounting hinges, cracked skirts, repair/replace tow pintle assembly, and maintaining inflatable seat.

TASK: 2146.02.20 (CORE PLUS) MAINTAIN M1A1 INTERIOR HULL ASSEMBLY

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

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REFERENCE(S):

1. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
8. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
9. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
10. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
11. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
12. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: driver hatch and lifting mechanism, driver periscopes, driver periscope washer, drain valves, ammunition compartment, and

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repair/replace driver vehicular seat and headrest.

TASK: 2146.02.21 (CORE) MAINTAIN M1A1 ACCESSORY ITEMS

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
6. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
7. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
8. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
9. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
10. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
11. TM 08953A-24P-2, Organizational, Direct Support, and General Support

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Maintenance Repair Parts and Special Tools List for M1A1 Turret

12. TM 9-2540-205-24&P, Heaters, Vehicular Compartment
13. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: vehicular (personnel) heater, smoke generator components, driver periscope wiper, and external auxiliary power unit (EAPU).

TASK: 2146.02.22 (CORE PLUS) MAINTAIN M1A1 BILGE PUMP

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
6. TM 08953A-24P-1, Organizational, Direct Support, and General Support

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Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include servicing the following: replacing centrifugal bilge pump unit and repair/replace bilge pump unit tube assembly, metallic bent tube, and rubber hoses.

TASK: 2146.02.23 (CORE) MAINTAIN M1A1 HULL HYDRAULIC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: auxiliary hydraulic rotary pump, main hydraulic centrifugal pump, hydraulic distribution manifold, hydraulic distribution manifold pressure switch, hydraulic reservoir, hydraulic filter manifold tube assembly, hydraulic manifold filter elements, hydraulic heat exchanger and mounting bracket, hydraulic hull assemblies, tube assemblies, and fittings.

TASK: 2146.02.25 (CORE) MAINTAIN M1A1 FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
2. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
3. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
4. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
5. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
6. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

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ENCLOSURE (6)

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: fire sensor, fire extinguisher control amplifier, reset switch assembly, fire extinguisher tube assemblies and nipples, valve and bottle assemblies, fire extinguisher manifold, fire extinguisher system manual controls, and fire extinguisher lines, hoses, and fittings inspections.

TASK: 2146.02.26 (CORE) MAINTAIN M1A1 NBC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: particle separator, duct assemblies, hose and tube assemblies, NBC filter assembly, Venturi air circulating duct and pressure regulating flow valve, prioritization valve, and NBC system components, switches inspection and replacement.

TASK: 2146.02.27 (CORE) MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other

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hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: commander's control panel assembly, loader's panel, turret networks box, hull/turret slip ring assembly, blasting machine, commander's weapon station azimuth drive system, commander's weapon station power control unit, turret electrical wiring harnesses and cable assemblies, turret switches, and turret dome light.

TASK: 2146.02.28 (CORE) MAINTAIN M1A1 TURRET SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: turret exterior storage boxes, turret ammunition doors, safety guards and pads, turret ammunition racks, turret blow off panels, NBC pressure relief guard and cover, turret bustle ammunition compartment, and turret interior stowage boxes.

TASK: 2146.02.29 (CORE) MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: traverse servomechanism assembly, elevation servomechanism assembly, turret distribution valve, hand pump assembly, manual elevation/main accumulator assemblies, and turret hydraulic

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lines and fittings.

TASK: 2146.02.30 (CORE) MAINTAIN M1A1 TURRET ARMAMENT SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08953A-12, Lubrication Instructions, Tank, Combat, Full-Track: 120mm Gun, M1A1
2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: 120mm gun, smoke grenade launcher, loader's weapon mount, coaxial machine gun mount, and commander's weapon mount.

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TASK: 2146.02.31 (CORE) MAINTAIN M1A1 FIRE CONTROL SYSTEM

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
2. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
3. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
4. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
5. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: commander's extension, gunner's primary sight, commander's control assembly, line-of-sight electronics unit, commander's weapon station manual drive assembly, commander's weapon station unity tank periscope and junction box, commander's weapon station sight, handle, and linkage computer electronics unit, computer control panel, gun/turret drive electronics unit, crosswind sensor, cant unit assembly, rate gyroscopes, elevation mechanism disk filter, gunner's control grip assembly, laser rangefinder, thermal imaging system, collimator assembly, and gunner's auxiliary sight.

TASK: 2146.02.32 (CORE) MAINTAIN M1A1 TURRET NBC SYSTEM

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CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
2. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
3. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
4. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
5. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: commander's, gunner's, and loader's NBC equipment, and gas particulate filter system.

TASK: 2146.02.33 (CORE PLUS) MAINTAIN M1A1 MINECLEARING BLADE

CONDITION(S): Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

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2. Perform semiannual preventive maintenance checks and services (PMCS).
3. Identify, remove, and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: LCpl

REFERENCE(S):

1. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
-

TASK: 2146.02.35 (CORE) PERFORM M88A1/M88A2 ORGANIZATIONAL PMCS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, a driving area, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M88A1/M88A2 to determine malfunctions.
2. Perform limited technical inspection (LTI).
3. Perform semiannual PMCS.
4. Identify, remove, and repair or replace unserviceable parts or components.
5. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1

4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.36 (CORE) TROUBLESHOOT M88A1/M88A2 SYSTEMS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, a driving area, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M88A1/M88A2 to determine malfunctions.
2. Perform limited technical inspection (LTI).
3. Identify, remove, and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
4. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: engine, fuel, and air intake/exhaust systems, oil cooling system, transmission center section and output reduction gears, driver controls, tracks and suspension, main and hoist winches, hoisting boom, spade, impact wrench, fuel transfer pump, main hydraulic system, auxiliary hydraulic system, auxiliary power unit, personnel heater, gas-particulate filter unit, M239 smoke grenade system, and exhaust smoke generating system.

TASK: 2146.02.37 (CORE) TROUBLESHOOT M88A1/M88A2 ELECTRICAL SYSTEMS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M88A1/M88A2 to determine malfunctions.
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1
3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
4. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: master relay system and slave receptacle, main engine manifold preheater and starting system, main engine fuel supply electrical system, main engine monitoring system, governor control system, transmission monitoring system, generator, APU starting system, APU fuel system, APU monitoring system, vehicle warning system, vehicle warning system-external vehicle

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warning horn, personnel heater and control system, interior lighting system, exterior lighting system, filter unit, gas-particulate, hydraulic reservoir monitoring system, smoke generating system, and main engine generator blower.

TASK: 2146.02.38 (CORE) MAINTAIN M88A1/M88A2 POWER PLANT AND ASSEMBLIES

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track: Medium, M88A1/M88A2
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools
8. TM 9-4910-571-12&P, Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List Simplified Test Equipment for Internal Combustion Engines-Reprogrammable

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other

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hazardous materials used in preventive/corrective maintenance.

3. Formal school training for this task includes the following: main engine fuel, air intake and exhaust system, main engine cooling system, transmission, and removing/replacing power plant.

TASK: 2146.02.39 (CORE) MAINTAIN M88A1/M88A2 ELECTRICAL SYSTEMS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools
7. TM 9-6140-200-12, Operator's Organizational, Direct Support, and General Support Maintenance Manual for Lead-Acid Storage Batteries; 4 HN, 24 V

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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3. Formal school training for this task includes the following: charging/starting system and vehicle batteries, gauge and switch panels, lighting system, and vehicle wiring.

TASK: 2146.02.40 (CORE) MAINTAIN M88A1/M88A2 SUSPENSION COMPONENTS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track: Medium, M88A1/M88A2
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: bumper springs and

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brackets, drive sprockets, compensating idler arm components, road wheel arm and hub components, shocks, torsion bars, track support roller components, and track.

TASK: 2146.02.41 (CORE PLUS) MAINTAIN M88A1/M88A2 HULL AND RELATED COMPONENTS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
3. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
4. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1
5. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track: Medium, M88A1/M88A2
6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
7. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2
8. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.42 (CORE PLUS) MAINTAIN M88A1/M88A2 PERSONNEL HEATER

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracke; Medium, M88A1
3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracke: Medium, M88A1/M88A2
4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracke M88A2
5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracke, Heavy, M88A2
6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools
7. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.43 (CORE) MAINTAIN M88A1/M88A2 FIRE EXTINGUISHER SYSTEM

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

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PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: removal/replacement and weighing of fire bottles.

TASK: 2146.02.44 (CORE) MAINTAIN M88A1/M88A2 HYDRAULIC SYSTEM COMPONENTS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Track Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Track: Medium, M88A1/M88A2
5. TM 9-2350-256-24P-2, Unit, Direct Support, and General Support Maintenance Repair Parts & Special Tools List for M88A1/M88A2 Winch, Power Take-off and Hoist System
6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
7. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2
8. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: main winch and spade assembly, hoist winch assembly, wire rope and roller assembly, and hoisting boom assembly.

TASK: 2146.02.45 (CORE) MAINTAIN M88A1/M88A2 MAIN HYDRAULIC SYSTEM

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

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2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.46 (CORE PLUS) MAINTAIN M88A1/M88A2 AUXILIARY POWER UNIT

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

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INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 9-2350-256-12, Lubrication Order for Recovery Vehicle, Full-Trackd Medium, M88A1/M88A2
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Trackd; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Trackd: Medium, M88A1/M88A2
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Trackd M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Trackd, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.47 (CORE PLUS) MAINTAIN M88A1/M88A2 GAS PARTICULATE FILTER UNIT

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2

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2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.48 (CORE PLUS) MAINTAIN M88A1/M88A2 SMOKE GRENADE LAUNCHERS

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 3-1040-266-20&P, Organizational Maintenance Manual: Launcher, Grenade, Smoke: Screening, RP, M239
2. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
3. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
4. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2

5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.49 (CORE PLUS) MAINTAIN M88A1/M88A2 EXHAUST SMOKE GENERATING SYSTEM

CONDITION(S): Given an M88A1/M88A2, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
3. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
4. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
5. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
6. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.51 (CORE) PERFORM AVLB CHASSIS/LAUNCHER PMCS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform semiannual PMCS.
3. Identify, remove, and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and

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Class 70 Aluminum; 60 Ft Span for Ustr

9. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

10. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.52 (CORE) TROUBLESHOOT AVLB CHASSIS/LAUNCHER

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB,

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7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Use

9. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

10. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: power plant, transmission, brakes, steering, hull power generator/regulator, fire extinguisher, and hydraulics.

TASK: 2146.02.53 (CORE) MAINTAIN AVLB POWER PLANT

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

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3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: replacing power plant, disconnecting power take-off, and testing power plant using the ground hop.

TASK: 2146.02.54 (CORE) MAINTAIN AVLB ENGINE

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: engine oil cooler and transmission oil cooler.

TASK: 2146.02.55 (CORE) MAINTAIN AVLB FUEL SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis,

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Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60

2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis,
Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60

3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB,
Armored Vehicle Launcher Bridge, Vol. 1 of 4

4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB,
Armored Vehicle Launcher Bridge, Vol. 2 of 4

5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB,
Armored Vehicle Launcher Bridge, Vol. 3 of 4

6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB,
Armored Vehicle Launcher Bridge, Vol. 4 of 4

7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools
List for M60A1, AVLB, Armored Vehicle Launcher Bridge

8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge
Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: fuel pumps, engine fuel pump, and air cleaner system.

TASK: 2146.02.58 (CORE) MAINTAIN AVLB ELECTRICAL SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

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1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 9-6140-200-12, Operator's Organizational, Direct Support, and General Support Maintenance Manual for Lead-Acid Storage Batteries; 4 HN, 24 V

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: engine generator and regulator assemblies, starter, engine fuel injector pump, master control panel, and batteries and associated components.

TASK: 2146.02.59 (CORE) MAINTAIN AVLB TRANSMISSION AND SHIFTING COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

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INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: shifting control and related parts, transmission oil breather tube, transmission main oil filter element, transmission side oil strainer assembly, adjusting shift linkage, neutral shift switch, and servobands.

TASK: 2146.02.60 (CORE) MAINTAIN AVLB FINAL DRIVE

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: final drives, final drive air pressure relief drive, and universal joint.

TASK: 2146.02.61 (CORE) MAINTAIN AVLB BRAKE SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).

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2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: master cylinder, brake pressure gauge, brake quick disconnect and hose assembly, brake left and right hand slave cylinders and tube assemblies, brake control housing, parking brake control assemblies, bell crank, and bleed/adjust hydraulic brake system.

TASK: 2146.02.62 (CORE PLUS) MAINTAIN AVLB TRACK AND SUSPENSION SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

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ENCLOSURE (6)

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.63 (CORE PLUS) MAINTAIN AVLB STEERING SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.64 (CORE PLUS) MAINTAIN AVLB EXTERIOR COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
3. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
5. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
6. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
7. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
8. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
9. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.65 (CORE) MAINTAIN AVLB INTERIOR COMPONENTS

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
3. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
5. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
6. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
7. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
8. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
9. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: engine access covers, bulkhead PTO ring, and slip ring box access cover.

TASK: 2146.02.66 (CORE PLUS) MAINTAIN AVLB PERSONNEL HEATER

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

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PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
2. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
3. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
4. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
5. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
6. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
7. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60
8. TM 9-2540-205-24&P, Heaters, Vehicular Compartment

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.67 (CORE) MAINTAIN AVLB GAUGES

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
2. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
3. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
4. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
5. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
6. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
7. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: speedometer, speedometer flexible shaft assembly, speedometer adapter rotating bracket and speedometer shaft adapter assemblies, tachometer, tachometer bulkhead shaft adapter, tachometer flexible shaft assemblies, and tachometer-speedometer mounting bracket.

TASK: 2146.02.68 (CORE) MAINTAIN AVLB FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: interior release mechanism, exterior release handle body assembly, fixed fire extinguisher outside release handle control assembly, control valve assembly, fixed fire extinguisher cylinder, fixed fire extinguisher delay bottle and tubes, fixed fire extinguisher mounting bracket, fixed fire extinguisher manifold, discharge valves, tubes, engine compartment discharge manifold, and related parts.

TASK: 2146.02.69 (CORE PLUS) MAINTAIN AVLB SMOKE GENERATOR SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

Appendix B to
ENCLOSURE (6)

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include inspection, repair, and/or replacement of the following: smoke generator switch and guard, smoke generator switch indicator light and mounting bracket, smoke generator wiring harness, smoke generator fuel shut-off valve, smoke generator solenoid, smoke generator fuel hoses, lines, fittings, and smoke generator tee to turbo supercharger tube assembly.

TASK: 2146.02.70 (CORE PLUS) MAINTAIN AVLB SMOKE GRENADE LAUNCHER

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 3-1040-266-20&P, Organizational Maintenance Manual: Launcher, Grenade, Smoke: Screening, RP, M239
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include inspection, repair, and/or replacement of the following: smoke grenade power box, smoke grenade push-button unit, smoke grenade wiring harness assemblies, smoke grenade launcher, smoke grenade storage box, and also performing a function check on the smoke grenade launcher.

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TASK: 2146.02.71 (CORE) MAINTAIN AVLB HYDRAULIC SYSTEM

CONDITION(S): Given an AVLB, necessary tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-20-1, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 1 of 4
4. TM 5-5420-202-20-2, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 2 of 4
5. TM 5-5420-202-20-3, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 3 of 4
6. TM 5-5420-202-20-4, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vol. 4 of 4
7. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
8. TM 5-5420-228-24, M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Formal school training for this task includes the following: valves and

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associated hydraulics, filter, hose assemblies, hydraulic cylinders, and hydraulic reservoir components.

TASK: 2146.02.73 (CORE) MAINTAIN AVLB BRIDGE

CONDITION(S): Given an AVLB, assigned tools, test equipment, assistant(s), and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-5420-203-14, Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span for Use
2. TM 5-5420-203-24P, Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
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TASK: 2146.02.74 (CORE) MAINTAIN M1A1 EXTERNAL AUXILIARY POWER UNIT (EAPU)

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), and references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LO 9-2350-264-12, Lubrication Order, Tank Combat 120mm Gun M1A1
2. TM 08953A-20-3-1, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 1 of 4
3. TM 08953A-20-3-2, Troubleshooting for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 2 of 4
4. TM 08953A-20-3-3, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 3 of 4
5. TM 08953A-20-3-4, Maintenance for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Turret), Vol. 4 of 4
6. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
7. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.75 (CORE) MAINTAIN M88A1/M88A2 OUTPUT REDUCTION UNIT

CONDITION(S): Given an M88A1/M88A2, assigned tools, test equipment, assistant(s), and references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

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1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-20-2-1, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 1 of 5
3. TM 08953A-20-2-2, Unit Troubleshooting Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 2 of 5
4. TM 08953A-20-2-3, Unit Troubleshooting and Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 3 of 5
5. TM 08953A-20-2-4, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 4 of 5
6. TM 08953A-20-2-5, Unit Maintenance Manual for Tank, Combat, Full-Track: 120mm Gun, M1A1 General Abrams (Hull), Vol. 5 of 5
7. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
8. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Track M88A2
9. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Track, Heavy, M88A2
10. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.02.76 (CORE PLUS) APPLY DEEP WATER FORDING KIT TO M88A1/M88A2

CONDITION(S): Given an M88A1/M88A2, deep water fording kit, and the references.

STANDARD(S): To prepare for amphibious operations per the references.

PERFORMANCE STEPS:

1. Conduct fording kit inventory.
2. Apply deep water fording kit to M88A1/M88A2.
3. Operate vehicle as per instructions.
4. Remove deep water fording kit.

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5. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
3. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
4. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools
5. TM 9-238, Deep-Water Fording of Ordnance Material

TASK: 2146.02.77 (CORE) PERFORM ANNUAL CONDITION INSPECTION OF M88A1/M88A2 RECOVERY VEHICLE

CONDITION(S): Given an M88A1/M88A2, applicable forms, an assistant, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Inspect lifting components.
2. Identify unserviceable components.
3. Remove and repair or replace unserviceable components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
3. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
4. TM 4700-15/1, Ground Equipment Record Procedures

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5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

TASK: 2146.02.78 (CORE) MAINTAIN GROUND HOP M88A2 MAIN WINCH

CONDITION(S): Given an M88A2, assigned tools, test equipment, suitable driving area, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify, remove, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
2. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
3. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include inspection, repair, and/or replacement of the following: pulling the nose cone, paying out the main winch, and limit switch adjustments.

DUTY AREA 03 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE

TASK: 2146.03.01 (CORE) TROUBLESHOOT M1A1 HULL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 hull system components, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-24-1, Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual Systems Schematics for M1A1
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2
4. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500
5. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615
6. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps must include inspection and troubleshooting of the following: in-tank fuel pump, driver's instrument panel, driver's master control panel, driver's alert panel, temperature control unit, digital electronic control unit, hull power distribution box, hull networks distribution box, dome light, hull wiring harnesses, and shift control assembly.

TASK: 2146.03.02 (CORE) TROUBLESHOOT M1A1 TURRET SYSTEM COMPONENTS

CONDITION(S): Given M1A1 turret system components, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 08953A-24-1, Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual Systems Schematics for M1A1
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2
4. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500
5. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615
6. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps must include inspection and checking the following: turret network box, loader's panel, dome light, tank commander's panel, commander's weapon station control handle, commander's weapon station power control unit, gun/turret drive electronic unit, commander's control assembly, gunner's control assembly, elevating mechanism, traversing mechanism, turret wiring harness, and hand pump assembly.

TASK: 2146.03.03 (CORE PLUS) REPAIR AGT TURBINE ENGINE

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CONDITION(S): Given an M1A1 AGT 1500, appropriate lifting device, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500
2. TM 9-2835-255-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Turbine Engine, Field Service Model AGT 1500

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable #1 bearing, removing and inspecting intermediate housing assembly, replacing unserviceable #12 and #4 annular ball bearing, removing and inspecting reduction gear box, replacing unserviceable #10 ball bearing, removing and inspecting shaft assembly and adapter, replacing unserviceable #5 bearing, removing and inspecting accessory gear box cover assembly.

TASK: 2146.03.04 (CORE PLUS) MAINTAIN M1A1 FUEL SYSTEM COMPONENTS

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.

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3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include: repairing unserviceable EMFS, fuel pump driveshaft, fuel pump, and rotary variable differential transformers (RVDTs).

TASK: 2146.03.05 (CORE PLUS) MAINTAIN M1A1 COOLING SYSTEM COMPONENTS

CONDITION(S): Given an M1A1 power pack, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm

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Gun, M1A1

2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2

3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: repairing or replacing unserviceable oil cooling fan angle drive unit assembly and unserviceable oil cooler fans and tube axle.

TASK: 2146.03.06 (CORE PLUS) MAINTAIN M1A1 HULL ELECTRICAL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 components, assigned tools test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
2. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2
3. TM 9-2835-255-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500
4. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615
5. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test

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Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: repairing generator, driver's instrument panel, driver's master control panel, driver's alert panel, temperature controller, digital electronic control unit (DECU), hull power distribution box, hull network distribution box, DECU supplemental battery box, headlight assembly, wiring harness, and starter.

TASK: 2146.03.07 (CORE PLUS) REPAIR M1A1 FINAL DRIVE ASSEMBLY

CONDITION(S): Given M1A1 final drive assembly, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2
4. TM 9-2520-276-34&P, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Final Drive Assemblies, Model X1100-3B

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

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2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Steps include the following: repairing output shaft assembly and final drive assembly.

TASK: 2146.03.08 (CORE PLUS) MAINTAIN M1A1 STEERING ASSEMBLY

CONDITION(S): Given an M1A1 steering assembly, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2
4. TM 9-2520-276-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual for Transmission Assembly, Model X1100-3B
5. TM 9-2520-276-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Transmission Assemblies

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable access cover, switches and connectors, housing, identification plate, and unserviceable electrical wires.

TASK: 2146.03.09 (CORE PLUS) MAINTAIN M1A1 CHASSIS ACCESSORIES

CONDITION(S): Given an M1A1, an appropriate lifting device, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
3. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
4. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include replacing or adjusting the following: unserviceable hull turret seal, race ring wiper seal, turret ring headless shoulder pin, bump stop bracket, ammunition doors, sound suppressors, and removing, repairing, and/or replacing the race ring assembly.

TASK: 2146.03.11 (CORE PLUS) MAINTAIN M1A1 FIRE SUPPRESSION EQUIPMENT COMPONENTS

CONDITION(S): Given M1A1 fire suppression components, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable

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software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-1, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Hull
2. TM 08953A-34/6-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 1 of 2
3. TM 08953A-34/6-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Hull, Vol. 2 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable fire extinguisher distribution tube assemblies and repairing unserviceable valve and bottle assembly.

TASK: 2146.03.12 (CORE PLUS) MAINTAIN M1A1 TURRET ELECTRICAL SYSTEM COMPONENTS

CONDITION(S): Given M1A1 turret electrical system components, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.

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4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
2. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2
3. TM 9-1200-206-34-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 1 of 3 for M1 and M1A1 Sighting and Fire Control
4. TM 9-1200-206-34-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 2 of 3 for M1 and M1A1 Sighting and Fire Control
5. TM 9-1200-206-34-3, Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol 3 of 3 for M1 and M1A1 Sighting and Fire Control
6. TM 9-1200-206-34P-2, Direct Support and General Support Repair Parts and Special Tools List for M1, IPM1, and M1A1 Sighting and Fire Control Components
7. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2
8. TM 9-4931-586-12-1&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615
9. TM 9-4931-586-12-2&P, Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: repairing gunner's control assembly, commander's control assembly, gun/turret drive electronics unit, turret networks box assembly, loader's panel, tank commander's panel assembly, commander's weapon station control handle assembly, machine gun safety switch assembly, wiring harness, and commander's weapons station power control unit assembly.

TASK: 2146.03.13 (CORE PLUS) MAINTAIN M1A1 TURRET HYDRAULIC SYSTEM COMPONENTS

CONDITION(S): Given an M1A1, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

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STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2
4. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: repairing traversing mechanism assembly, elevating mechanism assembly, hand pump and hydraulic handle assembly, traverse servomechanism assembly, and elevation servomechanism assembly.

TASK: 2146.03.14 (CORE PLUS) MAINTAIN M1A1 TURRET ASSEMBLY COMPONENTS

CONDITION(S): Given an M1A1, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.

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3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2
4. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: repairing turret lock assembly, turret race assembly, commander's weapon station azimuth drive gear box, commander's weapon station elevation manual drive, and turret ammunition doors.

TASK: 2146.03.15 (CORE PLUS) MAINTAIN M1A1 ARMAMENT SYSTEM COMPONENTS

CONDITION(S): Given M1A1 armament system, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

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REFERENCE(S):

1. LI 08953A-12, Lubrication Instruction, Tank, Combat, Full-Track: 120-mm Gun, M1A1
2. TM 08953A-24P-2, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
3. TM 08953A-34-2-2, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 2 of 2
4. TM 9-1000-202-14, Evaluation of Cannon Tubes
5. TM 9-2350-264-34-2-1, Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vol. 1 of 2
6. TM 9-6650-235-13&P, M3 Borescope Manual

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable 120mm gun mount, replacing and/or adjusting gun trunnion resolver, replacing gunner's auxiliary sight front seal, and replacing recoil mechanism and recoil mechanism wipers.

TASK: 2146.03.16 (CORE PLUS) MAINTAIN M1A1 MINE CLEARING BLADE COMPONENTS

CONDITION(S): Given an M1A1 mine clearing blade, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

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1. TM 2590-10/1, Operator's Manual, Blade, Mine Clearing
2. TM 2590/23&P/2, Mine Clearing Blade, Abrams Tank

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable motor housing, speed gear assembly, and motor assembly.

TASK: 2146.03.17 (CORE PLUS) MAINTAIN X11003B TRANSMISSION

CONDITION(S): Given an M1A1, X11003B transmission, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-276-34, Intermediate Direct Support and Intermediate General Support Maintenance Manual for Transmission Assembly, Model X1100-3B
2. TM 9-2520-276-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Transmission Assemblies

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable right brake apply shaft assembly, housing, and brake pad.

TASK: 2146.03.18 (CORE PLUS) MAINTAIN EXTERNAL AUXILIARY POWER UNIT (EAPU)

CONDITION(S): Given an M1A1 external auxiliary power unit, appropriate lifting devices, assigned tools, test equipment, assistant(s), access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-6115-542-24&P/1, External Auxiliary Power Unit

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: replacing unserviceable engine, repairing fuel, electrical, and/or air intake systems.

TASK: 2146.03.19 (CORE PLUS) TROUBLESHOOT M88A1/M88A2

CONDITION(S): Given an M88A1/M88A2, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-10, Operator's Manual, Recovery Vehicle Medium M88A1/M88A2
2. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracke; Medium, M88A1
3. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracke; Medium, M88A1/M88A2
4. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracke: Medium, M88A1/M88A2 Winch, Power Take-off and Hoist System
5. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracke: Medium M88A1/M88A2
6. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracke M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include inspection, and checking the following: fuel system, purge pump, electrical system, mechanical tachometer and speedometer, auxiliary power unit, bilge pump, personnel heater, and main hydraulic system.

TASK: 2146.03.20 (CORE PLUS) MAINTAIN M88A1/M88A2 SYSTEMS

CONDITION(S): Given an M88A1/M88A2, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-20, Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
2. TM 9-2350-256-24P-1, Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
3. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1/M88A2
4. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2 Winch, Power Take-off and Hoist System
5. TM 9-2350-292-10, Operator's Manual for Recovery Vehicle, Heavy, Full-Tracked M88A2
6. TM 9-2350-292-20, Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
7. TM 9-2350-292-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. Steps include repair and/or replacement of the following: power plant, fuel tanks, electric fuel pump, purge pump, personnel heater, electrical components, hydraulic components, auxiliary power unit, adjust and load test main winch, hoist winch, and live boom, hoisting boom assembly, main winch and spade assembly, hydraulic subplate assembly, mechanical transmission and main hydraulic pump assembly, hoist winch assembly, hydraulic oil tank assembly, spade subplate and combination control valve assembly, flow regulator subplate assembly, smoke grenade launcher, and adjust and load test main winch, hoist winch, and live boom.
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TASK: 2146.03.21 (CORE PLUS) MAINTAIN M88A1/M88A2 TURBOSUPERCHARGER

CONDITION(S): Given an M88A1/M88A2, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2
2. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2 Winch, Power Take-off and Hoist System
3. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium M88A1/M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: disassembling turbosupercharger, inspecting and repairing turbosupercharger, assembling turbosupercharger, and testing/adjusting turbosupercharger.

TASK: 2146.03.22 (CORE PLUS) REPAIR M88A1/M88A2 ENGINE

CONDITION(S): Given an AVDS-1790-2D engine, assigned tools, test equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2815-220-34, Direct Support and General Support Maintenance Manual for

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Engine w/Container: Turbosupercharged, Diesel, Fuel Injection, 90 Degree "V" Type,
Air-Cooled 12 Cyl, Assembly; Mod-D

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: disassembling engine, inspecting and repairing engine, assembling engine, and testing/adjusting engine.

TASK: 2146.03.23 (CORE PLUS) REPAIR M88A1/M88A2 TRANSMISSION

CONDITION(S): Given an XT-1410-4 transmission, assigned tools, test equipment, access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-215-34, Direct and General Support and Depot Maintenance for Transmission, Cross Drive Assembly (Allison Model XT 1410-4)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: disassembling transmission, inspecting and repairing transmission, assembling transmission, and testing/adjusting transmission.

TASK: 2146.03.24 (CORE PLUS) REPAIR M88A1/M88A2 OUTPUT REDUCTION UNIT

CONDITION(S): Given an output reduction unit (ORU), assigned tools, test equipment,

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access to automated system and applicable software, and the reference.

STANDARD(S): To ensure operational readiness per the reference.

PERFORMANCE STEPS:

1. Disassemble ORU.
2. Inspect/repair ORU.
3. Assemble ORU.
4. Test/adjust ORU.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2520-215-34, Direct and General Support and Depot Maintenance for Transmission, Cross Drive Assembly (Allison Model XT 1410-4)

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

TASK: 2146.03.25 (CORE PLUS) MAINTAIN M88A1/M88A2 FUEL SYSTEM

CONDITION(S): Given an M88A1/M88A2, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 9-2350-256-34-1, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Track; Medium, M88A1/M88A2

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2. TM 9-2350-256-34-2, Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked: Medium, M88A1/M88A2 Winch, Power Take-off and Hoist System

3. TM 9-2350-256-34P-1, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium M88A1/M88A2

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: removing and testing fuel injectors, repair, replace, and time injector pump, and replacing/adjusting Viking pump.

TASK: 2146.03.26 (CORE PLUS) MAINTAIN AVLB ENGINE

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include the following: disassembling engine, inspecting and repairing engine, assembling engine, and testing and adjusting engine.

TASK: 2146.03.27 (CORE PLUS) MAINTAIN AVLB FUEL SYSTEM

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
3. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
4. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
5. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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3. Steps include: removing and testing fuel injectors and timing injectors and Viking pump.

TASK: 2146.03.28 (CORE PLUS) MAINTAIN AVLB ELECTRICAL SYSTEM

CONDITION(S): Given and AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Remove, repair, and/or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-10, Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. Steps include: inspection, repair, and/or replacement of the wiring harnesses, starter, and generator.
-

TASK: 2146.03.29 (CORE PLUS) MAINTAIN AVLB TRANSMISSION

CONDITION(S): Given an AVLB power plant, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

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STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include: disassembling transmission, inspecting and repairing transmission, assembling transmission, and testing and adjusting transmission.

TASK: 2146.03.30 (CORE PLUS) MAINTAIN AVLB BRAKE SYSTEM COMPONENTS

CONDITION(S): Given AVLB brake system components, assigned tools, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.

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3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include: inspection, repair, and/or replacement of the brake master cylinder and brake slave cylinder.

TASK: 2146.03.31 (CORE PLUS) MAINTAIN AVLB SUSPENSION SYSTEM

CONDITION(S): Given an AVLB, suspension components, assigned tools, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LO 5-5420-202-12, Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include inspection, repair, and/or replacement of the following: road wheel arm assembly, track support axle assembly, compensating idler arm assembly, and track adjusting link.

TASK: 2146.03.33 (CORE PLUS) MAINTAIN AVLB FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an AVLB, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
2. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class

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3. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include: inspection, repair, and/or replacement of the fixed fire extinguishing cylinder.

TASK: 2146.03.34 (CORE PLUS) MAINTAIN AVLB LAUNCHER

CONDITION(S): Given an AVLB, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative records and forms, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-20, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

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2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. Steps include: inspection, repair, and/or replacement of the following: reservoir blower assembly, reservoir quadrant blower motor, accessories control box, tongue assembly, boom-outrigger, and maintaining pump-clutch and valve bank and hydraulic cylinders and reservoir.

TASK: 2146.03.35 (CORE PLUS) MAINTAIN AVLB FINAL DRIVE

CONDITION(S): Given an AVLB final drive, appropriate lifting devices, assigned tools, test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative records and forms, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-5420-202-20, Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge
2. TM 5-5420-202-24P, Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
3. TM 5-5420-202-34, Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
4. TM 5-5420-202-34P, Direct Support and General Support Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. Steps include: disassembling final drive, inspecting and repairing final drive, assembling final drive, and testing/adjusting final drive.

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TASK: 2146.03.36 (CORE PLUS) MAINTAIN INTERMEDIATE TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, cleaning materials, access to automated system and applicable software, and the references.

STANDARD(S): To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Inspect and maintain tools.
2. Inspect and maintain special tools.
3. Inspect and maintain test equipment.
4. Inspect and maintain M1A1 tools.
5. Inspect and maintain M88A1/M88A2 tools.
6. Inspect and maintain AVLB tools.
7. Inventory kits, sets, chests, and equipment as required and complete applicable forms and records.
8. Requisition required items and reconcile as required with supporting supply source.
9. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. MCO 4400.150, Consumer Level Supply Policy Manual
2. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
3. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
4. SL-3-00456A, Tool Kit, General Mechanic's
5. SL-3-03533A, Tool Set, Wrench Impact
6. SL-3-07769B, Recovery Vehicle, Full-Track, Medium M88A1/M88A2
7. SL-3-07928A, Tool Set, Organizational Maintenance 2nd Echelon, M88A1/M88A2, Recovery Vehicle, Full-Track
8. SL-3-08940A, Launcher and M60A1 Tank Chassis, Transporting for Bridge,

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Armored Vehicle Launched (AVLB) Scissoring Type

9. SL-3-08953A, Tank, Combat, Full-Track 120mm Gun, M1A1
10. SL-3-09561A, Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon
11. SL-3-09590A, Analyzer Set, Vehicular (STE-M1)
12. SL-3-10025A, Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

TASK: 2146.04.01 (CORE PLUS) MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Ensure maintenance of electronic and paper-based technical publications libraries.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATCLASS II+ User's Manual
2. Applicable equipment technical manuals
3. MCO 4731.1, Oil Analysis Program for Ground Equipment
4. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
5. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
6. MCO 4855.10, Product Quality Deficiency Report (PQDR)
7. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

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9. MCO P4400.150, Consumer-Level Supply Policy Manual
10. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
11. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
12. TM 4700-15/1, Ground Equipment Record Procedures
13. UM 4790-5, MIMMS AIS Field Maintenance Procedures

TASK: 2146.04.02 (CORE PLUS) ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Ensure compliance with maintenance management programs, as applicable:
 - a. Modification Control Program
 - b. Warrant Program
 - c. Joint Oil Analysis Program
 - d. Inspect Only As Necessary Program
 - e. WIR Program
 - f. Quality Control Program
 - g. Administrative Dead Line Program
 - h. Contact Team Program
 - i. Maintenance Stand-Down Program
 - j. Corrosion Prevention and Control Program
 - k. Hazardous Communication Program
 - l. Tool Control and Calibration Programs

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m. Embarkation Program

4. Ensure actions are completed to correct any deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
 2. TM 4700-15/1, Ground Equipment Record Procedures
 3. UM 4790-5, MIMMS AIS Field Maintenance Procedures
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TASK: 2146.04.03 (CORE PLUS) PERFORM OPERATOR TRAINING

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.
2. Provide instruction and guidance on performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO 4731.1, Oil Analysis Program for Ground Equipment
2. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
3. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
4. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
5. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
6. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
7. TM 4700-15/1, Ground Equipment Record Procedures

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8. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.
-

TASK: 2146.04.04 (CORE PLUS) PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system and applicable software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance schedule.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Identify and validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expended bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc report.
13. Perform evacuation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual
 2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
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TASK: 2146.04.05 (CORE PLUS) CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies, and the references.

STANDARD(S): To provide appropriate training sustainment and progression for subordinates per the references.

PERFORMANCE STEPS:

1. Review the annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements, as needed.
6. Conduct ordnance maintenance training appropriate to unit size and mission.
7. Participate in unit training evaluations and inspections, as required.
8. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm
2. MCO 1510.34, Individual Training Standards System (ITSS)
3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3
4. MCO 1553.3, Marine Corps Unit Training Management
5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)
6. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

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MOS 2147, LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR AND CREW/OPERATOR MAINTENANCE

Operator training to enable maintainers to move, troubleshoot, and test all LAV variants.

TASK: 2147.01.01 (CORE) PERFORM LAV OPERATOR MAINTENANCE

CONDITION(S): Given an LAV, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.
2. Perform operator level troubleshooting.
3. Operate vehicle per instructions.
4. Perform during operations checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. LI 08650A-12A, Lubrication Instructions, LAV-Command & Control
3. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
4. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull
5. LI 08654A-12, Lubrication Instructions, LAV-Logistics
6. LI 08655A-12A, Lubrication Instructions, LAV-Mortar
7. LI 09999A-12, Lubrication Instructions, LAV-MEWSS
8. TI-2320-15/55B, Deadline Criteria
9. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25
10. TM 08651A-10A, Operator's Manual, LAV Recovery
11. TM 08652A-10/2A, Operator's Manual, LAV Anti-Tank Auto/Hull

12. TM 08653A-10/1, Operator's Manual, LAV-Air Defense
13. TM 08654A-10A, Operator's Manual, LAV Logistics
14. TM 08655A-10A, Operator's Manual, LAV-M
15. TM 09999A-10/2, Operator's Manual, LAV MEWSS
16. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Steps include inspection, removal, repair, and/or replacement of the following: communications equipment, driver's and commander's night vision periscopes, fluid levels, lubrication points, wheel drive assembly, service hull drain plug, air cleaner element, fuel strainer/separator, batteries, air reservoirs, brake system, weather protection grill cover, driver's windshield, driver's cover, tie down strap, smoke grenade launcher, LAV tires, collateral equipment, NBC system, maintenance equipment, and performing corrosion control.
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TASK: 2147.01.02 (CORE) OPERATE LAV-25

CONDITION(S): Given an LAV-25, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.
2. Operate LAV-25 turret and 25mm automatic chain gun.
3. Perform operator level troubleshooting.
4. Operate vehicle per instructions.
5. Perform during operations checks.
6. Perform after operations checks.
7. Operate associated SL-3 equipment.
8. Make appropriate entries in ordnance vehicle logbook.

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9. Make appropriate entries in weapons record book.
10. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
3. SL-3-08594A, Stocklist, LAV-25
4. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret
5. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25
6. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
2. Steps include inspecting: air intake and exhaust system, braking system, commander's night vision periscope, communications system, compressed air system, crew heater assembly, driver's night periscope, electrical system, bilge pump, engine, suspension assemblies, propeller drive assembly, steering system, transmission, wheel drive assemblies, and recovery equipment.
3. Vehicle not operated off-road or in simulated combat situations during formal school training.

TASK: 2147.01.03 (CORE) OPERATE LAV-ANTI-TANK (AT)

CONDITION(S): Given an LAV-AT, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, when applicable.

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INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
3. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull
4. TM 08594A-10/2B, Operator's Manual, Auto/Hull LAV-25
5. TM 08652A-10/1A, Operator's Manual, LAV-AT Turret
6. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

2. Steps include inspection, removal, repair and/or replacement of the following: annunciator panel, compressed air and brake system, NBC system, power pack assembly, steering system, hydraulic system, electrical system, suspension system, drive train system, fuel system, cooling system, communications system, air intake system/exhaust system, fire suppression system, personal heater, and pneumatic system.

TASK: 2147.01.04 (CORE) OPERATE LAV-RECOVERY

CONDITION(S): Given an LAV, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance requirements to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operations checks.
2. Perform operator level troubleshooting.
3. Operate LAV-R.
 - a. Ensure crane annual condition inspection is current prior to use.
 - b. Ensure not to exceed crane capacity.
 - c. Operate all auxiliary equipment.
4. Perform during operations checks.

5. Perform after operations checks.
6. Perform first echelon preventive maintenance checks and services (PMCS).
7. Operate associated SL-3 equipment.
8. Properly record inventories.
9. Make appropriate entries in ordnance vehicle logbook.
10. Perform daily crane inspection.
11. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
2. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. SL-3-08651A, Stocklist, LAV-Recovery
4. TM 08651A-10A, Operator's Manual, LAV Recovery
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
2. Steps include limited technical inspection of the LAV-R.

TASK: 2147.01.05 (CORE PLUS) OPERATE LAV-MORTAR (M)

CONDITION(S): Given an LAV-M, assigned tools and test equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To determine corrective maintenance required to restore end item or component to operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-M.

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4. Perform during operations checks.
5. Perform after operations checks.
6. Properly record inventories.
7. Make appropriate entries in ordnance vehicle logbook.
8. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08655A-12A, Lubrication Instructions, LAV-Mortar
2. TM 08655A-10A, Operator's Manual, LAV-M
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.01.06 (CORE PLUS) OPERATE LAV-COMMAND & CONTROL (C2)

CONDITION(S): Given an LAV-C2, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-C2.
4. Perform during operations checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.
7. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

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REFERENCE(S):

1. LI 08650A-12A, Lubrication Instructions, LAV-Command & Control
2. TM 08650A-10, Operator's Manual, LAV Command & Control
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.01.07 (CORE PLUS) OPERATE LAV-MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)

CONDITION(S): Given an LAV-MEWSS, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-MEWSS.
4. Perform during operations checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.
7. Complete required maintenance and/or administrative records and forms, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 09999A-12, Lubrication Instructions, LAV-MEWSS
2. TM 09999A-10/2, Operator's Manual, LAV MEWSS
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Steps include inspection, removal, and replacement of the following: turntable,

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roof hatch, and ammunition rack.

TASK: 2147.01.08 (CORE PLUS) OPERATE LAV-LOGISTICS (L)

CONDITION(S): Given an LAV-L, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-L.
4. Perform during operations checks.
5. Perform after operations checks.
6. Perform first echelon preventive maintenance checks and services (PMCS).
7. Operate associated SL-3 equipment.
8. Properly record inventories.
9. Make appropriate entries in ordnance vehicle logbook.
10. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08654A-12, Lubrication Instructions, LAV-Logistics
2. SL-3-08654A, Stocklist, LAV-Logistics
3. TM 08654A-10A, Operator's Manual, LAV Logistics
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.01.09 (CORE PLUS) OPERATE LAV-AIR DEFENSE (AD)

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CONDITION(S): Given an LAV-AD, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-AD.
4. Perform during operations checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.
7. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 08653A-10/1, Operator's Manual, LAV-Air Defense
2. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.01.10 (CORE) MAINTAIN LAV TOOLS AND TEST EQUIPMENT

CONDITION(S): Given applicable tools and test equipment, access to automated system and applicable software, and the references.

STANDARD(S): To ensure safety and availability to support mission requirements per the references.

PERFORMANCE STEPS:

1. Maintain all common, fabricated, TMDE, and special tools.
2. Inventory all common, fabricated, TMDE, and special tools.
3. Take appropriate action for all unserviceable and missing tools.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
2. SL-3 08721A, Tool Kit, Armor LAV-25
3. SL-3 08723A, Tool Set, F/M242 25mm Cannon
4. SL-3 08894A, Tool Kit, Organizational Maintenance, 2nd Echelon
5. SL-3 08895A, Tool Kit, Intermediate Maintenance, LAV
6. SL-3 08896A, Tool Kit, Maintenance, 4th Echelon, LAV
7. SL-3 10262A, GPIA LAV Electronics System Test Set
8. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Formal school training includes: introduction to and inventory of General Mechanic's Tool Box, familiarization with special tools and test equipment used in the course of instruction.

TASK: 2147.01.11 (CORE) PERFORM LAV PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To minimize corrective maintenance, in accordance with the procedures and specifications listed per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Perform all required PMCS.
3. Perform corrosion control.

4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
3. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
4. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
5. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull
6. LI 08654A-12, Lubrication Instructions, LAV-Logistics
7. LI 08655A-12A, Lubrication Instructions, LAV-Mortar
8. LI 09999A-12, Lubrication Instructions, LAV-MEWSS
9. SL-4 08594A, Stocklist, Repair Parts, LAV-25
10. SL-4 08650A, Stocklist, Repair Parts, LAV-C2
11. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
12. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
13. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense
14. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics
15. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar
16. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS
17. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
18. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
19. TM 08650A-20B, Organizational Maintenance, LAV-C2
20. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
21. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
22. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull
23. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret
24. TM 08653A-20/2, Organizational Maintenance, LAV Air Defense Auto/Hull

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- 25. TM 08654A-20B, Organizational Maintenance, LAV-Logistics
- 26. TM 08655A-20B, Organizational Maintenance, LAV-Mortar
- 27. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun
- 28. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

ADMINISTRATIVE INSTRUCTIONS:

- 1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
- 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
- 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METLs) and equipment on hand.

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DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

TASK: 2147.03.01 (CORE) MAINTAIN LAV HULL (ALL VARIANTS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. SL-4 08650A, Stocklist, Repair Parts, LAV-C2
4. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
5. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
6. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense
7. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics
8. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar
9. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS
10. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
11. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
12. TM 08650A-20B, Organizational Maintenance, LAV-C2
13. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
14. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
15. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull

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16. TM 08653A-20, Organizational Maintenance, LAV-Air Defense
17. TM 08654A-20B, Organizational Maintenance, LAV-Logistics
18. TM 08655A-20B, Organizational Maintenance, LAV-Mortar
19. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun
20. TM 0999914/1, Organizational Maintenance, LAV-MEWSS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this TASK include components not listed for instruction under tasks 2147.03.02 through 2147.03.14.

TASK: 2147.03.02 (CORE) MAINTAIN LAV SUSPENSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.
-

TASK: 2147.03.03 (CORE) MAINTAIN LAV ENGINE

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Make adjustments to specifications.
4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
2. TM 4700-15/1, Ground Equipment Record Procedures
3. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
-

TASK: 2147.03.04 (CORE) MAINTAIN LAV TRANSMISSION

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Adjust modulator and complete road test.
4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. SL-4 8A191B/8B040B, Stocklist, Transmission
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures
5. TM 8A191B-34/1, XMSN Auto Model 653

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics and identification of components of the LAV transmission.

TASK: 2147.03.05 (CORE) MAINTAIN LAV POWERPACK

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

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STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify/Isolate discrepancies/unserviceable parts or components.
3. Remove and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.03.06 (CORE) MAINTAIN LAV STEERING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Adjust components within specifications.
4. Complete required maintenance and/or administrative forms and records, as applicable.

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REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics and identification of components of the steering system, concept of operations, wheel alignment, and tire wear indicators.
-

TASK: 2147.03.07 (CORE) MAINTAIN LAV COOLING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics, identification of components and path of flow of the cooling system.
-

TASK: 2147.03.08 (CORE) MAINTAIN LAV FUEL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. TI-10340-15/1C, Fuel Requirements, Authorized Fuel for Engine
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Steps include inspection, removal, and replacement of the following: power

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pack, mounting brackets, engine controls, and transmission controls.

TASK: 2147.03.09 (CORE) MAINTAIN LAV HULL ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 08650A-20B, Organizational Maintenance, LAV-C2
5. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
6. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
7. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull
8. TM 08653A-20, Organizational Maintenance, LAV-Air Defense
9. TM 08654A-20B, Organizational Maintenance, LAV-Logistics
10. TM 08655A-20B, Organizational Maintenance, LAV-Mortar
11. TM 0999914/1, Organizational Maintenance, LAV-MEWSS
12. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components and path of flow of the electrical system.

TASK: 2147.03.10 (CORE) MAINTAIN LAV PNEUMATIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts and components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 08650A-20B, Organizational Maintenance, LAV-C2
5. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
6. TM 08653A-20, Organizational Maintenance, LAV-Air Defense
7. TM 0999914/1, Organizational Maintenance, LAV-MEWSS
8. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all

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LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow of the pneumatic system.

TASK: 2147.03.11 (CORE) MAINTAIN LAV HULL HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
4. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
5. TM 08650A-20B, Organizational Maintenance, LAV-C2
6. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
7. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
8. TM 08653A-20, Organizational Maintenance, LAV-Air Defense
9. TM 0999914/1, Organizational Maintenance, LAV-MEWSS
10. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

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3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow of the hydraulic system.

TASK: 2147.03.12 (CORE) MAINTAIN LAV BRAKE SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, and repair or replace unserviceable parts or components.
3. Adjust to specifications.
4. Bleed brake system.
5. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Steps include inspection, removal, and replacement of the following: brake

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shoes and wheel cylinders.

TASK: 2147.03.13 (CORE) MAINTAIN LAV DRIVE TRAIN

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components to include marine drive system.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics and identification of components of the LAV drive train, concept of operations, removal and installation of the transfer case, differentials, marine drive, and drive shafts.

TASK: 2147.03.14 (CORE PLUS) MAINTAIN LAV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and

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applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics, identification of components, and inspection of the fire suppression system.
5. Check for compliance of hydrostatic test date on storage tank. Perform visual inspection on tanks to ensure continued usage.

TASK: 2147.03.15 (CORE PLUS) MAINTAIN LAV-25 TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and install LAV-25 turret.

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3. Remove and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
4. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this task include components not associated for instruction under tasks 2147.03.16 and 2147.03.17.

TASK: 2147.03.16 (CORE PLUS) MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret
4. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow.

TASK: 2147.03.17 (CORE PLUS) MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/3B, Organizational Maintenance, LAV-25 Turret
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics, identification of components, and path of flow.

TASK: 2147.03.18 (CORE PLUS) MAINTAIN LAV-AT TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Perform turret bleed down procedures when working on pressurized hydraulic system.
3. Remove and repair or replace unserviceable parts or components.
4. Remove and install LAV-AT turret.
5. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-10/1A, Operator's Manual, LAV-AT Turret
4. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

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2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered under this task include components not associated for instruction under tasks 2147.03.09 and 2147.03.10.

TASK: 2147.03.19 (CORE PLUS) MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Perform turret bleed down procedures when working on pressurized hydraulic system.
3. Remove and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

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4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

TASK: 2147.03.20 (CORE PLUS) MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

TASK: 2147.03.21 (CORE PLUS) MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Perform turret bleed down procedures when working on pressurized hydraulic system.
3. Remove and repair or replace unserviceable parts and components.
4. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: characteristics, identification of components, concept of operations, and removal and installation of components within authorized echelon of maintenance.

TASK: 2147.03.22 (CORE PLUS) MAINTAIN LAV-RECOVERY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
3. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this task include components not associated for instruction under tasks 2147.03.23 and 2147.03.24.

TASK: 2147.03.23 (CORE PLUS) MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

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REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
3. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.
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TASK: 2147.03.24 (CORE PLUS) MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
2. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. SL-4 08594A, Stocklist, Repair Parts, LAV-25

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4. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
5. TM 08651A-10A, Operator's Manual, LAV Recovery
6. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
7. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.
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TASK: 2147.03.25 (CORE PLUS) MAINTAIN M242 25MM AUTOMATIC CHAIN GUN

CONDITION(S): Given an M242 25mm automatic chain gun in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Remove and repair or replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret
2. TM 08672A-20&P/1, Maintenance Manual, 25mm Auto Chain Gun
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: characteristics, identification of components, and removal and installation of components within authorized echelon of maintenance.
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TASK: 2147.03.26 (CORE PLUS) MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Maintain LAV-AT turret sights, optics, and viewing devices within the authorized echelon of maintenance per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify/Isolate discrepancies/unserviceable parts or components.
3. Remove and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 8H161B-20, Light Armored Vehicle (LAV) Thermal Sight System
2. TM 8H161B-34, Light Armored Vehicle (LAV) Thermal Sight System

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Steps include inspection, removal, and replacement of the following: night

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sight and associated equipment, daysight/tracker associated equipment, image transfer assembly, and purging the image transfer assembly.

TASK: 2147.03.27 (CORE PLUS) MAINTAIN LAV-AT TURRET CONTROLS AND INDICATORS

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Maintain LAV-AT turret controls and indicators within the authorized echelon of maintenance per the references.

PERFORMANCE STEPS:

1. Perform limited technical inspection (LTI).
2. Identify/Isolate discrepancies/unserviceable parts or components.
3. Remove and repair or replace unserviceable parts or components.
4. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Steps include inspection, removal, and replacement of the following: turret controls and indicators.

TASK: 2147.03.28 (CORE PLUS) CONVERT LAV-AT TURRET STOW AND LOW STOW

CONDITION(S): Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): Convert the LAV-AT turret launcher/erection arm assembly per applicable references.

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PERFORMANCE STEPS:

1. Convert stow to low stow.
2. Convert low stow to stow.
3. Complete required maintenance and/or administrative forms and records, when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
2. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

DUTY AREA 04 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE

TASK: 2147.04.01 (CORE PLUS) MAINTAIN LAV HULL (ALL VARIANTS)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
3. LI 08652A-12/1C, Lubrication Instructions, LAV-Anti-Tank Auto/Hull
4. LI 08654A-12, Lubrication Instructions, LAV-Logistics
5. LI 08655A-12A, Lubrication Instructions, LAV-Mortar
6. LI 09999A-12, Lubrication Instructions, LAV-MEWSS
7. SL-4 08594A, Stocklist, Repair Parts, LAV-25
8. SL-4 08650A, Stocklist, Repair Parts, LAV-C2
9. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
10. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
11. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense
12. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics
13. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar
14. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS
15. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
16. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull

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17. TM 08650A-20B, Organizational Maintenance, LAV-C2
18. TM 08650A-34, Intermediate Maintenance, LAV-C2
19. TM 08651A-20B, Organizational Maintenance, LAV-Recovery
20. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
21. TM 08652A-20/4A, Organizational Maintenance, LAV Anti Tank Auto/Hull
22. TM 08652A-34/6A, Intermediate Maintenance, LAV Anti Tank Auto/Hull
23. TM 08653A-20, Organizational Maintenance, LAV-Air Defense
24. TM 08653A-34/3, Intermediate Maintenance, LAV Air Defense Auto/Hull
25. TM 08654A-20B, Organizational Maintenance, LAV-Logistics
26. TM 08655A-20B, Organizational Maintenance, LAV-Mortar
27. TM 08655A-34, Intermediate Maintenance, LAV-Mortar
28. TM 09999A-14, MEWSS

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this task include components not listed for instruction under tasks 2147.04.02 through 2147.04.12.

TASK: 2147.04.02 (CORE PLUS) MAINTAIN LAV SUSPENSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered may include but are not limited to the following: repair of planetary gear and control arm.
-

TASK: 2147.04.03 (CORE PLUS) MAINTAIN LAV ENGINE

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. TM 4700-15/1, Ground Equipment Record Procedures
3. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

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ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered include but are not limited to the following: repair of blower seals, turbocharger seals, tune-up, separation of engine from transmission, and cylinder head inspection and replacement.
-

TASK: 2147.04.04 (CORE PLUS) MAINTAIN LAV TRANSMISSION

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 8A191B/8B040B, Stocklist, Transmission
3. TM 4700-15/1, Ground Equipment Record Procedures
4. TM 8A191B-34/1, XMSN Auto Model 653

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all

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LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: separation of transmission from engine.

TASK: 2147.04.05 (CORE PLUS) MAINTAIN LAV POWERPACK

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-20/4A, Organizational Maintenance, LAV-25 Auto/Hull
3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures
5. TM 8A191B-34/1, XMSN Auto Model 653
6. TM 8A192C-34/PA, Engine, Diesel, 6 Cyl Turbocharged

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: removal and separation of engine and transmission.

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TASK: 2147.04.06 (CORE PLUS) MAINTAIN LAV STEERING SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.04.07 (CORE PLUS) MAINTAIN LAV HULL ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. SL-4 08650A, Stocklist, Repair Parts, LAV-C2
3. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
4. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
5. SL-4 08653A, Stocklist, Repair Parts, LAV-Air Defense
6. SL-4 08654A, Stocklist, Repair Parts, LAV-Logistics
7. SL-4 08655A, Stocklist, Repair Parts, LAV-Mortar
8. SL-4 09999A, Stocklist, Repair Parts, LAV-MEWSS
9. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
10. TM 08650A-34, Intermediate Maintenance, LAV-C2
11. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
12. TM 08652A-34/6A, Intermediate Maintenance, LAV Anti Tank Auto/Hull
13. TM 08653A-34/3, Intermediate Maintenance, LAV Air Defense Auto/Hull
14. TM 08654A-34, Intermediate Maintenance, LAV-Logistics
15. TM 08655A-34, Intermediate Maintenance, LAV-Mortar
16. TM 09999A-14, MEWSS
17. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: reading schematics.

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TASK: 2147.04.08 (CORE PLUS) MAINTAIN LAV HULL PNEUMATIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.04.09 (CORE PLUS) MAINTAIN LAV HULL HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.

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3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.04.10 (CORE PLUS) MAINTAIN LAV BRAKE SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures

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ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
-

TASK: 2147.04.11 (CORE PLUS) MAINTAIN LAV DRIVE TRAIN

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/2A, Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: replace

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differential, transfer case, marine drive, and propeller drive seals.

TASK: 2147.04.12 (CORE PLUS) MAINTAIN LAV FIRE SUPPRESSION SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

TASK: 2147.04.13 (CORE PLUS) MAINTAIN LAV-25 TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.

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2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this task include components not associated for instruction under tasks 2147.04.14 and 2147.04.15.

TASK: 2147.04.14 (CORE PLUS) MAINTAIN LAV-25 TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Make adjustments to specifications.
4. Complete required maintenance and/or administrative forms and records, as applicable.

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REFERENCE(S):

1. LI 08594A-12/1B, Lubrication Instructions, LAV-25 Turret
2. SL-4 08594A, Stocklist, Repair Parts, LAV-25
3. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: repair of hydraulic power supply, manual elevation hand crank, elevation actuator, and traverse drive assembly.

TASK: 2147.04.15 (CORE PLUS) MAINTAIN LAV-25 TURRET FIRE CONTROL ELECTRONICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08594A, Stocklist, Repair Parts, LAV-25
2. TM 08594A-34/8, Intermediate Maintenance, LAV-25 Turret
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

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1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: repair of the PDA, CDA, and hand control assemblies.

TASK: 2147.04.16 (CORE PLUS) MAINTAIN LAV-AT TURRET ASSEMBLY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
2. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered under this task include components not associated for instruction under tasks 2147.04.17 through 2147.04.19.

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TASK: 2147.04.17 (CORE PLUS) MAINTAIN LAV-AT TURRET FIRE CONTROL HYDRAULICS

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
4. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Perform turret bleed down procedures when working on pressurized hydraulic system.
5. Items covered include but are not limited to the following: repair of hydraulic power supply, azimuth drive, and accumulator assemblies.

TASK: 2147.04.18 (CORE PLUS) MAINTAIN LAV-AT TURRET FIRE CONTROL ELECTRONICS

Appendix C to
ENCLOSURE (6)

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08652A-12/1B, Lubrication Instructions, LAV-Anti-Tank Turret
2. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
3. TM 08652A-20/3B, Organizational Maintenance, LAV Anti Tank Turret
4. TM 08652A-34/5A, Intermediate Maintenance, LAV Anti Tank Turret
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: RAD adjustment, repair of gunner's control panel, and microswitch replacement and adjustment.

TASK: 2147.04.19 (CORE PLUS) MAINTAIN LAV-AT TURRET SIGHTS, OPTICS, AND VIEWING DEVICES

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

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1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08652A, Stocklist, Repair Parts, LAV-Anti Tank
2. TM 08652A-34/3, Organizational Maintenance, LAV Anti Tank Turret
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: ITA removal and installation.

TASK: 2147.04.20 (CORE PLUS) MAINTAIN LAV-RECOVERY

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery

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2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
 2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
 3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
 4. Items covered under this task include components not associated for instruction under tasks 2147.04.21 and 2147.04.22.
-

TASK: 2147.04.21 (CORE PLUS) MAINTAIN LAV-RECOVERY ELECTRICAL SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
2. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
3. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
4. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.

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2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.

4. Items covered include but are not limited to the following: reading schematics.

TASK: 2147.04.22 (CORE PLUS) MAINTAIN LAV-RECOVERY HYDRAULIC SYSTEM

CONDITION(S): Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. LI 08651A-12A, Lubrication Instructions, LAV-Recovery
2. SL-4 08651A, Stocklist, Repair Parts, LAV-Recovery
3. TM 08594A-34/9, Intermediate Maintenance, LAV-25 Auto/Hull
4. TM 08651A-34, Intermediate Maintenance, LAV-Recovery
5. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand.
4. Items covered include but are not limited to the following: winch adjustment,

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troubleshooting, remove and install crane, and reading schematics.

TASK: 2147.04.23 (CORE PLUS) MAINTAIN M242 25MM AUTOMATIC CHAIN GUN

CONDITION(S): Given an M242 25mm automatic chain gun in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure operational readiness per the references.

PERFORMANCE STEPS:

1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts or components.
3. Complete required maintenance and/or administrative forms and records, as applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08594A-10-1C, Operator's Manual, LAV-25 Turret
2. TM 08672A-30&P, Maintenance Manual, 25mm Automatic Chain Gun
3. TM 4700-15/1, Ground Equipment Record Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs are limited to the authorized echelon of maintenance.
2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.
3. MOS 2147 Formal Training, MOJT, and Sustainment training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METLs) and equipment on hand.

DUTY AREA 05 - ADMINISTRATIVE FUNCTIONS

TASK: 2147.05.01 (CORE PLUS) MANAGE MAINTENANCE FUNCTIONAL AREAS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Ensure maintenance of the technical publications library.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections, as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATCLASS II+ User's Manual
2. Applicable equipment technical manuals
3. MCO 4731.1, Oil Analysis Program for Ground Equipment
4. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
5. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
6. MCO 4855.10, Product Quality Deficiency Report (PQDR)
7. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
8. MCO P11262.2, Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

9. MCO P4400.150, Consumer-Level Supply Policy Manual
10. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
11. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
12. TM 4700-15/1, Ground Equipment Record Procedures
13. UM 4790-5, MIMMS AIS Field Maintenance Procedures

TASK: 2147.05.02 (CORE PLUS) ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS

CONDITION(S): Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system and applicable software, and the references.

STANDARD(S): To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance per the references.

PERFORMANCE STEPS:

1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Ensure compliance with maintenance management programs, as applicable:
 - a. Modification Control Program
 - b. Warranty Program
 - c. Joint Oil Analysis Program
 - d. Inspect Only As Necessary Program
 - e. WIR Program
 - f. Quality Control Program
 - g. Administrative Dead Line Program
 - h. Contact Team Program
 - i. Maintenance Stand-Down Program
 - j. Corrosion Prevention and Control Program
 - k. Hazardous Communication Program
 - l. Tool Control and Calibration Programs

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m. Embarkation Program

4. Ensure actions are completed to correct any deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
 2. TM 4700-15/1, Ground Equipment Record Procedures
 3. UM 4790-5, MIMMS AIS Field Maintenance Procedures
-

TASK: 2147.05.03 (CORE PLUS) PERFORM OPERATOR TRAINING

CONDITION(S): Given the requirement, subordinate personnel, and the appropriate references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Provide instruction and guidance on the completion of equipment records.
2. Provide instruction and guidance on performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO 4731.1, Oil Analysis Program for Ground Equipment
2. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
3. MCO 4790.18, Corrosion Prevention and Control (CPAC) Program
4. MCO 5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program
5. MCO P4790.1, Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
6. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
7. TM 4700-15/1, Ground Equipment Record Procedures

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ENCLOSURE (6)

8. UM 4790-5, MIMMS AIS Field Maintenance Procedures

ADMINISTRATIVE INSTRUCTIONS:

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

TASK: 2147.05.04 (CORE PLUS) PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION

CONDITION(S): Given the requirement, access to automated system and applicable software, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance schedule.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Identify and validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expended bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc report.
13. Perform evacuation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ATLASS II+ User's Manual
2. MCO P4790.2, Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual

TASK: 2147.05.05 (CORE PLUS) CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM

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ENCLOSURE (6)

CONDITION(S): Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies, and the references.

STANDARD(S): To provide appropriate training sustainment and progression for subordinates per the references.

PERFORMANCE STEPS:

1. Review the annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements, as needed.
6. Conduct ordnance maintenance training appropriate to unit size and mission.
7. Participate in unit training evaluations and inspections, as required.
8. Maintain records of all training conducted.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Marine Corps Unit Training Management (UTM), available online at www.tecom.usmc.mil/utm
2. MCO 1510.34, Individual Training Standards System (ITSS)
3. MCO 1510.67, Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21 VOLUME 3
4. MCO 1553.3, Marine Corps Unit Training Management
5. MCRP 3-0A, Unit Training Management Guide (FMFM 0-1)
6. MCRP 3-0B, How to Conduct Training (FMFM 0-1A)

SUMMARY/INDEX OF INDIVIDUAL TRAINING STANDARDS BY SPECIFIC CATEGORY (MOJT, DL, PST)

1. This Enclosure summarizes the Individual Training Standards (ITS) according to three categories:

Appendix A: ITSS Trained via Managed On-The-Job Training (MOJT)

Appendix B: ITSS Supported by Distance Learning (DL) Products

Appendix C: ITSS Supported by Performance Support Tools (PST)

2. If no information is applicable to a category, the appendix will include a statement to that effect.

3. Format. The columns in each appendix are as follows:

a. SEQ. Sequence Number. This number dictates the order in which tasks for a given duty area are displayed.

b. TASK. ITS Designator. This is the permanent designator assigned to the task when it is created.

c. TITLE. ITS Task Title.

d. CORE. An "X" appears in this column when the task is designated as a "core" task required to "make" a Marine or qualify that Marine for the appropriate MOS. The absence of an "X" indicates that this is an advanced ("core plus") task that is mission, grade, or billet specific.

e. FLC. Functional Learning Center. An "X" appears in this column when the FLC is designated as the initial training setting. The absence of an "X" indicates that the initial training is accomplished through Managed On-The-Job Training (MOJT).

f. DL. Distance Learning (DL) Product. An "X" in this column indicates that at least one DL product is associated with this task. Consult enclosure (6) for details.

g. PST. Performance Support Tool (PST). An "X" in this column indicates that at least one PST is associated with this task. Consult enclosure (6) for details.

h. SUS. Sustainment Training Period. An entry in this column represents the number of months between evaluation or retraining by the unit to maintain the proficiency required by the standard, provided the task supports the unit's METL.

i. REQ BY. Required By. An entry in this column depicts the lowest grade required to demonstrate proficiency in this task.

j. PAGE. Page Number. This column lists the number of the page in enclosure (6) that contains detailed information concerning this task.

ENCLOSURE (7)

INDIVIDUAL TRAINING STANDARDS TRAINED VIA MANAGED ON-THE-JOB TRAINING

This Appendix includes a summary listing of all ITS tasks planned for initial Managed On-The-Job Training (MOJT). They are grouped by MOS and Duty Area.

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ	BY	PAGE
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MOS 2141, ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

9)	2141.01.09	OPERATE AAVP7A1 COLD WEATHER EQUIPMENT	12	Pvt				6-A-6		
10)	2141.01.10	MAINTAIN AAVR7A1 TOOLS AND TEST EQUIPMENT	12	Pvt				6-A-6		

DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

2)	2141.03.05	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT	12	PFC				6-A-8		
9)	2141.03.12	MAINTAIN AAV/FOV AIR ASPIRATION SYSTEM	12	PFC				6-A-13		
10)	2141.03.13	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM	12	Pvt				6-A-13		
17)	2141.03.21	RECOVER SUBMERGED AAV/FOV	36	SSgt				6-A-18		
18)	2141.03.22	PREPARE AAV/FOV FOR SHIPMENT	36	Sgt				6-A-18		
19)	2141.03.23	MAINTAIN STORED AAV/FOV	36	Sgt				6-A-19		
22)	2141.03.26	PERFORM AN AAV/FOV MODIFICATION	12	Cpl				6-A-21		
23)	2141.03.28	PERFORM QUALITY CONTROL INSPECTION	24	Cpl				6-A-21		

DUTY AREA 04 - THIRD ECHELON INTERMEDIATE MAINTENANCE

1)	2141.04.01	MAINTAIN AAV/FOV COLD WEATHER EQUIPMENT	12	Cpl				6-A-23		
3)	2141.04.03	MAINTAIN AAV/FOV ENGINE	12	Cpl				6-A-24		
6)	2141.04.06	MAINTAIN AAV/FOV WATER PROPULSION SYSTEM	12	Cpl				6-A-26		
14)	2141.04.14	REPAIR BOW PLANE ACTUATOR	12	Cpl				6-A-31		

DUTY AREA 05 - FOURTH ECHELON INTERMEDIATE MAINTENANCE

9)	2141.05.11	REPAIR POWER DRIVEN ROTARY PUMP	6	Cpl				6-A-38		
10)	2141.05.12	REPAIR SOLENOID VALVE ASSEMBLY	12	Cpl				6-A-38		
11)	2141.05.13	REPAIR PERSONNEL HEATER	12	Cpl				6-A-39		
13)	2141.05.16	REPAIR AAV/7A1 VT400 TURBOCHARGER	6	Cpl				6-A-40		
14)	2141.05.17	REPAIR WATER PUMP	6	Cpl				6-A-41		
17)	2141.05.21	REPAIR HYDRAULIC BILGE PUMP	12	Cpl				6-A-43		
18)	2141.05.22	REPAIR AAV/FOV UPGUNNED WEAPON STATION (UGWS)	12	Cpl				6-A-43		
19)	2141.05.25	REPAIR WATER JET PROPULSION UNIT	12	Cpl				6-A-44		
21)	2141.05.27	REPAIR CREW VENT FAN	12	Cpl				6-A-45		
22)	2141.05.28	REPAIR RADIATOR	12	Cpl				6-A-46		

DUTY AREA 07 - ADMINISTRATIVE FUNCTIONS

1)	2141.07.01	MANAGE MAINTENANCE FUNCTIONAL AREAS	12	SSgt				6-A-49		
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Appendix A to
ENCLOSURE (7)

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
2)	2141.07.02	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS					12	SSgt	6-A-50
3)	2141.07.03	PERFORM OPERATOR TRAINING					12	SSgt	6-A-51
4)	2141.07.04	PERFORM MIMMS/ATLASS II+ SYSTEMS ADMINISTRATION					12	SSgt	6-A-52
5)	2141.07.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	SSgt	6-A-52

MOS 2146, MAIN BATTLE TANK REPAIRER TECHNICIAN

DUTY AREA 02 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

4)	2146.02.07	TROUBLESHOOT M1A1 MINE CLEARING BLADE					12	LCpl	6-B-9
10)	2146.02.15	MAINTAIN M1A1 FINAL DRIVE					12	LCpl	6-B-15
11)	2146.02.16	MAINTAIN M1A1 BRAKE SYSTEM					12	LCpl	6-B-16
13)	2146.02.18	MAINTAIN M1A1 STEERING SYSTEM					12	Cpl	6-B-18
14)	2146.02.19	MAINTAIN M1A1 HULL EXTERIOR					12	PFC	6-B-19
15)	2146.02.20	MAINTAIN M1A1 INTERIOR HULL ASSEMBLY					12	PFC	6-B-20
17)	2146.02.22	MAINTAIN M1A1 BILGE PUMP					12	PFC	6-B-23
27)	2146.02.33	MAINTAIN M1A1 MINECLEARING BLADE					6	LCpl	6-B-32
34)	2146.02.41	MAINTAIN M88A1/M88A2 HULL AND RELATED COMPONENTS					12	PFC	6-B-39
35)	2146.02.42	MAINTAIN M88A1/M88A2 PERSONNEL HEATER					12	LCpl	6-B-40
39)	2146.02.46	MAINTAIN M88A1/M88A2 AUXILIARY POWER UNIT					12	PFC	6-B-43
40)	2146.02.47	MAINTAIN M88A1/M88A2 GAS PARTICULATE FILTER UNIT					12	PFC	6-B-44
41)	2146.02.48	MAINTAIN M88A1/M88A2 SMOKE GRENADE LAUNCHERS					12	PFC	6-B-45
42)	2146.02.49	MAINTAIN M88A1/M88A2 EXHAUST SMOKE GENERATING SYSTEM					12	PFC	6-B-46
52)	2146.02.62	MAINTAIN AVLB TRACK AND SUSPENSION SYSTEM					12	PFC	6-B-56
53)	2146.02.63	MAINTAIN AVLB STEERING SYSTEM					12	LCpl	6-B-57
54)	2146.02.64	MAINTAIN AVLB EXTERIOR COMPONENTS					12	PFC	6-B-58
56)	2146.02.66	MAINTAIN AVLB PERSONNEL HEATER					12	Pvt	6-B-60
59)	2146.02.69	MAINTAIN AVLB SMOKE GENERATOR SYSTEM					12	LCpl	6-B-63
60)	2146.02.70	MAINTAIN AVLB SMOKE GRENADE LAUNCHER					12	PFC	6-B-65
65)	2146.02.76	APPLY DEEP WATER FORDING KIT TO M88A1/M88A2					12	PFC	6-B-69

DUTY AREA 03 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE

8)	2146.03.08	MAINTAIN M1A1 STEERING ASSEMBLY					12	LCpl	6-B-78
9)	2146.03.09	MAINTAIN M1A1 CHASSIS ACCESSORIES					12	LCpl	6-B-79
15)	2146.03.16	MAINTAIN M1A1 MINE CLEARING BLADE COMPONENTS					12	LCpl	6-B-84
34)	2146.03.36	MAINTAIN INTERMEDIATE TOOLS AND TEST EQUIPMENT					12	PFC	6-B-100

DUTY AREA 04 - ADMINISTRATIVE FUNCTIONS

2)	2146.04.02	ADMINISTER MAINTENANCE MANAGEMENT					12	Sgt	6-B-103
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Appendix A to
ENCLOSURE (7)

MCO 1510.67B
06 NOV 02

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ	BY	PAGE
		PROGRAMS								
3)	2146.04.03	PERFORM OPERATOR TRAINING					12	Cpl		6-B-104
5)	2146.04.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	Sgt		6-B-106

MOS 2147, LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

DUTY AREA 01 - OPERATOR AND CREW/OPERATOR MAINTENANCE

5)	2147.01.05	OPERATE LAV-MORTAR (M)					12	PFC		6-C-5
6)	2147.01.06	OPERATE LAV-COMMAND & CONTROL (C2)					12	PFC		6-C-6
7)	2147.01.07	OPERATE LAV-MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)					12	PFC		6-C-7
8)	2147.01.08	OPERATE LAV-LOGISTICS (L)					12	PFC		6-C-8
9)	2147.01.09	OPERATE LAV-AIR DEFENSE (AD)					12	PFC		6-C-8

DUTY AREA 03 - SECOND ECHELON ORGANIZATIONAL MAINTENANCE

14)	2147.03.14	MAINTAIN LAV FIRE SUPPRESSION SYSTEM					12	PFC		6-C-24
25)	2147.03.25	MAINTAIN M242 25MM AUTOMATIC CHAIN GUN					12	PFC		6-C-34

DUTY AREA 04 - THIRD/FOURTH ECHELON INTERMEDIATE MAINTENANCE

2)	2147.04.02	MAINTAIN LAV SUSPENSION SYSTEM					12	PFC		6-C-39
4)	2147.04.04	MAINTAIN LAV TRANSMISSION					12	PFC		6-C-41
6)	2147.04.06	MAINTAIN LAV STEERING SYSTEM					12	PFC		6-C-43
8)	2147.04.08	MAINTAIN LAV HULL PNEUMATIC SYSTEM					12	PFC		6-C-45
9)	2147.04.09	MAINTAIN LAV HULL HYDRAULIC SYSTEM					12	PFC		6-C-45
10)	2147.04.10	MAINTAIN LAV BRAKE SYSTEM					12	PFC		6-C-46
12)	2147.04.12	MAINTAIN LAV FIRE SUPPRESSION SYSTEM					12	PFC		6-C-48

DUTY AREA 05 - ADMINISTRATIVE FUNCTIONS

2)	2147.05.02	ADMINISTER MAINTENANCE MANAGEMENT PROGRAMS					12	Sgt		6-C-59
3)	2147.05.03	PERFORM OPERATOR TRAINING					12	Cpl		6-C-60
5)	2147.05.05	CONDUCT MILITARY OCCUPATIONAL SPECIALTY TRAINING PROGRAM					12	Sgt		6-C-61

Appendix A to
ENCLOSURE (7)

INDIVIDUAL TRAINING STANDARDS SUPPORTED BY DISTANCE LEARNING PRODUCTS

This Appendix includes a summary listing of all ITS tasks that have at least one currently available or planned distance learning (DL) product associated with them. They are grouped by MOS and Duty Area.

<u>SEQ</u>	<u>TASK</u>	<u>TITLE</u>	<u>CORE</u>	<u>FLC</u>	<u>DL</u>	<u>PST</u>	<u>SUS</u>	<u>REQ</u>	<u>BY</u>	<u>PAGE</u>
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MOS 2141, ASSAULT AMPHIBIOUS VEHICLE REPAIRER/TECHNICIAN

MOS 2146, MAIN BATTLE TANK REPAIRER TECHNICIAN

DUTY AREA 01 - OPERATION AND CREW/OPERATOR MAINTENANCE

1)	2146.01.02	OPERATE M1A1 TANK	X	X	X		12	Pvt		6-B-1
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MOS 2147, LIGHT ARMORED VEHICLE REPAIRER/TECHNICIAN

There are no Distance Learning Products attached to any duty areas within this MOS.

INDIVIDUAL TRAINING STANDARDS SUPPORTED BY PERFORMANCE SUPPORT TOOLS

There are no performance support tools assigned to any tasks in this order.